



**GENERAL CATALOGUE**

# GENERAL CATALOGUE

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# FM TRANSMITTERS

EXCITERS / COMPACT TRANSMITTERS

- **Globally recognized as the most sold professional exciter.**
- **Excellent as exciter in modular systems or as a compact transmitter.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **10% - 100% Output Power continuously adjustable.**
- **Fold-back control for effective "VSRW" protection.**
- **Includes IAMLC: Intelligent Automatic Modulation Level Control.**
- **Built-in high-performance stereo coder.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Auxiliary input for SCA / RDS signals.**
- **WEB, SNMP2, GSM, Serial remote controls (option).**

# BLUES-NV SERIES

ULTRA COMPACT

from 30W to 50W

MODELS

BLUES30NV

BLUES50NV



**The Blues Series fits all needs for low-power Stations being one of the most used ultra-compact units ever. The models available reflects all R.V.R. high-standards combined in a smaller design allowing to lower any type of shipping and installation procedures. These FM Transmitters are ideal for as repeaters, exciters or compact transmitters for Community Radios.**

- **Ideal for LPFM Stations as transmitter, repeater or exciter.**
- **Great compromise between cost vs. quality.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **10% - 100% Output Power continuously adjustable.**
- **Inputs: Analogue Stereo L&R, Mono, MPX. AES/EBU (option).**
- **Remotable via Web, Serial protocols (option).**
- **1 Rack unit only: ultra compact and ultra light.**
- **Universal 80-260 V multi-voltage power supply.**
- **Easy maintenance.**

ORDERING INFORMATION	
Model	Description
<b>BLUES30NV</b>	<b>30W</b> Ultra Compact Stereo Transmitter.
<b>BLUES50NV</b>	<b>50W</b> Ultra Compact Stereo Transmitter.

OPTION	
<b>/AESEBUBLUES</b>	Digital/Analog converter.
<b>/TLW-BLU-E</b>	WEB and SNMP/V1 basic telemetry system via the internet.





**BLUES30NV**

30W Compact Stereo Transmitter.



**BLUES50NV**

50W Compact Stereo Transmitter.



Parameters	U.M.	BLUES30NV		BLUES50NV	Notes
		Value			
<b>GENERALS</b>					
Frequency range	MHz	87,5 ÷ 108			
Rated output power	W	30		50	Continuously adjustable from 10 to 100%
Modulation type		F3E Direct carrier frequency			
Operational mode		Mono, Stereo, Multiplex			
Working temperature	°C	-5 to + 50			
Working humidity	%	95			Without condensing
Working altitude	m	Up to 2000			With adequate air evacuation system in site
Frequency programmability	kHz	10			Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1			
Modulation capability	Referred @ 0dBu for 75kHz	150 Stereo, 180 Mono/MPX			Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)			Selectable
<b>POWER REQUIREMENTS</b>					
AC Supply Voltage	VAC	80 ÷ 260			Internal switch
AC Apparent Power Consumption	VA	120		200	
Active Power Consumption	W	70		100	
Power Factor		0,5			
Overall Efficiency	%	Typical 50			
Connector		VDE IEC Standard			
<b>MECHANICAL DIMENSIONS</b>					
Front panel width	mm / inch	483 / 19			EIA rack
Front panel height	mm / inch	44 / 3 1/2 1HE			
Overall depth	mm	394			
Chassis depth	mm	372			
Weight	kg	About 5,5			
Cooling		Forced, with internal fan			
Acoustic noise	dBA	< 58			
<b>AUDIO INPUTS</b>					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level / Adjust	dBu	-13 to +13		Continuously adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-13 to +13		Continuously adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k or 50		
	Input Level / Adjust	dBu	-13 to +13		For 7,5 KHz FM, adjustable
SCA/RDS	Connector		2 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Subcarrier Level @ 0 dBu	dB	-17 to -40		For 7,5 KHz FM, adjustable
AES/EBU (optional)	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	110		
	Input Level / Adjust	dBfs	0 to -10		For 7,5 KHz FM, adjustable
<b>OUTPUTS</b>					
RF Output	Connector		N type		
	Impedance	Ohm	50		
RF Monitor	Connector		BNC		
	Impedance	Ohm	50		
	Output Level	dBm	Approx. -30		
Pilot output	Connector		BNC		
	Load Impedance	Ohm	>5 k		
	Output Level	Vpp	1		Sinusoidal
<b>FUSES</b>					
On mains		1 External fuse F 3,15 T - 5x20 mm		1 External fuse F 6,3 T - 5x20 mm	
On services				X	
On PA Supply				X	
On driver supply				X	

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.



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# TEX-LCD SERIES

COMPACT HEAVY DUTY

from 30W to 3500W

MODELS

TEX30LCD/S

TEX50LCD/S

TEX100LCD/S

TEX150LCD/S

TEX300LCD

TEX502LCD

TEX702LCD

TEX3500LCD





**After decades of uninterrupted success our TEX Series remains the most installed transmitter worldwide in any type of radio station.**

**Cabable of working as well under extreme conditions, the wide range of powers available, combined with high reliability and power efficiency make these models the perfect solution for those looking for high quality at a very attractive price. These compact units can be used as a stand-alone all-in-one transmitters or as exciters in modular solutions.**

- **Worldwide best seller since 1979.**
- **High quality and rock solid at unbeatable value for money.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **Low distortion and intermodulation values.**
- **10% - 100% Output Power continuously adjustable.**
- **APC Automatic Power Control ensuring reliable operation.**
- **Enhanced energy saving power supply.**
- **Inputs: Analogue Stereo L&R, Mono, MPX. AES/EBU (option).**
- **Auxiliary input for SCA / RDS signals.**
- **RDS encoder with basic or advances features (option).**
- **WEB, SNMP2, GSM, Serial remote controls (option).**

ORDERING INFORMATION	
Model	Description
TEX30LCD/S	30W Compact Stereo Transmitter.
TEX50LCD/S	50W Compact Stereo Transmitter.
TEX100LCD/S	100W Compact Stereo Transmitter.
TEX150LCD/S	150W Compact Stereo Transmitter.
TEX300LCD	300W Compact Stereo Transmitter.
TEX502LCD	500W Compact Stereo Transmitter.
TEX702LCD	700W Compact Stereo Transmitter.
TEX3500LCD	3500W Compact Stereo Transmitter.

OPTION	
/AUDIGIN-TEX	AES/EBU audio input.
/RDS-TEX2HE	Build-in RDS system with standard UECP 6.1 functions.
/RDS-TEX3HE	Build-in RDS system with standard UECP 6.1 functions.
/RDS-TEX-E-2HE	Build-in RDS system with standard not UECP functions.
/RDS-TEX-E-3HE	Build-in RDS system with standard not UECP functions.
/TLW-TEX-E-2HE	Basic telemetry system via the internet.
/TLW-TEX-E-3HE	Basic telemetry system via the internet.
/RTC-TEX	Weekly power events function.
/CNT7/16-175	7/16" output RF connector.





**TEX30LCD/S**

30W Compact Stereo Transmitter.



**TEX100LCD/S**

100W Compact Stereo Transmitter.



**TEX150LCD/S**

150W Compact Stereo Transmitter.



**TEX300LCD**

300W Compact Stereo Transmitter.



**TEX702LCD**

700W Compact Stereo Transmitter.



**TEX3500LCD**

3500W Compact Stereo Transmitter.



		TEX30LCD/S	TEX100LCD/S	TEX150LCD/S	
Parameters	U.M.	Value			Notes
<b>GENERALS</b>					
Frequency range	MHz	87,5 ÷ 108			
Rated output power	W	30	100	150	Continuously adjustable from 10 to 100%
Modulation type		F3E Direct carrier frequency			
Operational mode		Mono, Stereo, MPX			
Working temperature	°C	-5 to + 50			
Working humidity	%	95			Without condensing
Working altitude	m	Up to 3000			With adequate air evacuation system in site
Frequency programmability	kHz	10			Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1			
Modulation capability	Referred @ 0dBu for 75kHz kHz	150 Stereo, 180 Mono/MPX			Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)			Selectable
<b>POWER REQUIREMENTS</b>					
AC Supply Voltage	VAC	80 ± 260%	115 / 230 ±15%		
AC Apparent Power Consumption	VA	130	330	440	
Active Power Consumption	W	70	212	260	
Power Factor		0,6			
Overall Efficiency	%	Typical 50	Typical 47	Typical 55	
Connector		VDE IEC Standard			
<b>MECHANICAL DIMENSIONS</b>					
Front panel width	mm / inch	483 / 19			EIA rack
Front panel height	mm / inch	88 / 3 1/2 2HE			
Overall depth	mm	394			
Chassis depth	mm	372			
Weight	kg	About 6,5	About 8,5		
Cooling		Forced, with internal fan			
Acoustic noise	dBA	< 58			
<b>AUDIO INPUTS</b>					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 or 600 k		
	Input Level / Adjust	dBu	-13 to +13		Continuously adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 or 600 k		
	Input Level	dBu	-13 to +13		Continuously adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k or 50		
	Input Level / Adjust	dBu	-13 to +13		For 7,5 KHz FM, adjustable
SCA/RDS	Connector		2 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Subcarrier Level @ 0 dBu	dB	-17 to -40		For 7,5 KHz FM, adjustable
AES/EBU (optional)	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	110		
	Input Level / Adjust	dBfs	0 to -10		For 7,5 KHz FM, adjustable
TOS/Link (optional)	Connector		TOSLINK		
	Type		Optical		
<b>OUTPUTS</b>					
RF Output	Connector		N type		
	Impedance	Ohm	50		
RF Monitor	Connector		BNC		
	Impedance	Ohm	50		
	Output Level	dBm	Approx. -30	Approx. -60	
Pilot output	Connector		BNC		
	Load Impedance	Ohm	>5 k		
	Output Level	Vpp	1		Sinusoidal
<b>FUSES</b>					
On mains		1 External fuse F 3,15 T - 5x20 mm	1 External fuse F 6,3 T - 5x20 mm		
On services			X		
On PA Supply			X		
On driver supply			X		

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Parameters	U.M.	TEX300LCD		TEX702LCD	TEX3500LCD	Notes
		Value				
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	300	700	3500		Continuously adjustable from 10 to 100%
Modulation type		F3E Direct carrier frequency				
Operational mode		Mono, Stereo, MPX				
Working temperature	°C	-5 to + 50				
Working humidity	%	95				Without condensing
Working altitude	m	Up to 3000		Up to 2000		With adequate air evacuation system in site
Frequency programmability	kHz	10				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz kHz	150 Stereo, 180 Mono/MPX				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Power input	AC Supply Voltage	VAC	80 ÷260		230 +10% -15%   400 +10% -15%	Monophase   Threephases Y
	AC Apparent Power Consumption	VA	560	912	4996	
	Active Power Consumption	W	520	910	4987	
	Power Factor		0,98	0,998		
	Overall Efficiency	%	Typical 55	Typical 70		
Connector		VDE IEC Standard		Terminal Block		
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width	mm / inch	483 / 19			EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE		132 / 5 1/4 3HE	
	Overall depth	mm	394		675	
	Chassis depth	mm	372		650	
Weight	kg	About 9	About 9,5	About 29		
Cooling		Forced, with internal fan				
Acoustic noise	dBA	< 75				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level /Adjust	dBu	-13 to +13			Continuously adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-13 to +13			Continuously adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k or 50			
	Input Level / Adjust	dBu	-13 to +13			For 7,5 KHz FM, adjustable
SCA/RDS	Connector		2 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			For 7,5 KHz FM, adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
	Input Level / Adjust	dBfs	0 to -10			For 7,5 KHz FM, adjustable
TOS/Link (optional)	Connector		TOSLINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type		7/8" EIA	
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -60			
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>5 k			
	Output Level	Vpp	1			Sinusoidal
<b>FUSES</b>						
On mains		1 External fuse F 8 L - 5x20 mm		3 External fuse F 10 T - 6x30 mm		
On services		X		X		
On PA Supply		X		4 Internal F 32 A 10x38mm		
On driver supply		X		X		

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# TEX-TFT SERIES

NEXT GENERATION COMPACT

from 30W to 5000W

## MODELS

TEX32TFT

TEX702TFT

TEX2003TFT

TEX52TFT

TEX1002TFT

TEX2503TFT

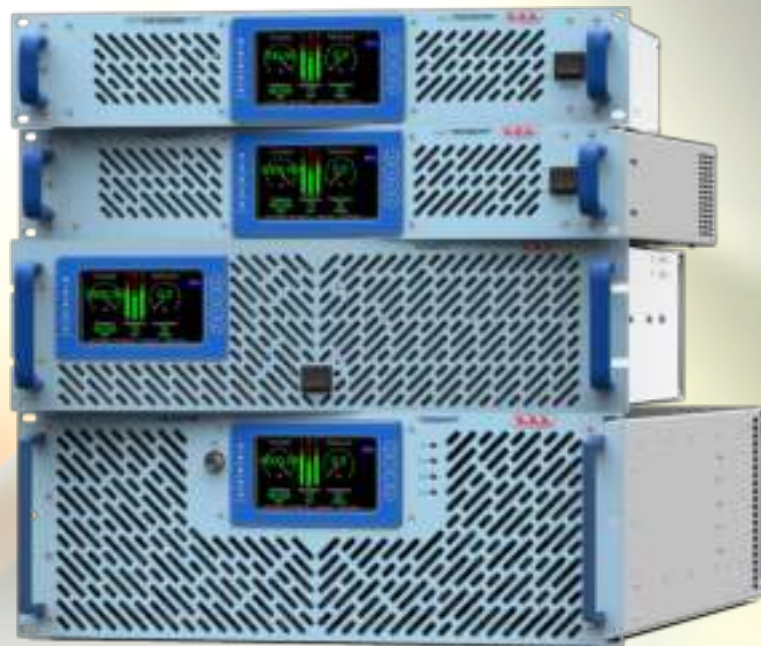
TEX302TFT

TEX1003TFT

TEX5004TFT

TEX502TFT

TEX1703TFT



**Discover the brand new low and medium power transmitter Series from R.V.R. Elettronica combining the latest technologies applied to the RF field. With the aim of improving the overall performances, from the interface usability to audio management and broadcasting parameters, this series of Transmitters have been developed to deliver a new high-standard at a very appealing quality-price relation.**

- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **10% - 100% Output Power continuously adjustable.**
- **Low distortion and intermodulation values.**
- **APC Automatic Power Control ensuring reliable operation.**
- **Enhanced energy saving power supply.**
- **Inputs: Analogue Stereo L&R, Mono, MPX. AES/EBU (option).**
- **Auxiliary input for SCA / RDS signals.**
- **RDS encoder option with basic or advanced features (option).**
- **WEB, SNMP, GSM, Serial remote controls (option).**

ORDERING INFORMATION	
Model	Description
<b>TEX32TFT</b>	<b>30W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX52TFT</b>	<b>50W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX302TFT</b>	<b>300W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX502TFT</b>	<b>500W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX702TFT</b>	<b>700W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX1002TFT</b>	<b>1000W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX1003TFT</b>	<b>1000W</b> High Redundancy Compact Stereo Transmitter TFT Edition.
<b>TEX1703TFT</b>	<b>1700W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX2003TFT</b>	<b>2000W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX2503TFT</b>	<b>2500W</b> Compact Stereo Transmitter TFT Edition.
<b>TEX5004TFT</b>	<b>5000W</b> Compact Stereo Transmitter TFT Edition.

OPTION	
Model	Description
<b>/AUDIGIN-TFT</b>	AES/EBU audio input.
<b>/RDS-TFT2HE</b>	Build-in RDS system with standard UECP 6.1 functions & DSN changeover.
<b>/RDS-TFT3HE</b>	Build-in RDS system with standard UECP 6.1 functions & DSN changeover.
<b>/RDS-TEX-E-2HE</b>	Build-in RDS system with standard not UECP functions.
<b>/RDS-TEX-E-3HE</b>	Build-in RDS system with standard not UECP functions.
<b>/RDS-TEX-E-4HE</b>	Build-in RDS system with standard not UECP functions.
<b>/TLW-TFT-E-2HE</b>	Basic telemetry system via the internet.
<b>/TLW-TFT-E-3HE</b>	Basic telemetry system via the internet.
<b>/TLW-TFT-E-4HE</b>	Basic telemetry system via the internet.
<b>/CNT7/8-150</b>	7/8" EIA flange type output connector option.
<b>/CNT7/16-175</b>	7/16" output RF connector.



**TEX1002TFT**

1000W Compact Stereo Transmitter  
TFT Edition.



**TEX1003TFT**

1000W High Redundancy Compact  
Stereo Transmitter TFT Edition.



**TEX1703TFT**

1700W Compact Stereo Transmitter  
TFT Edition.



**TEX2003TFT**

2000W Compact Stereo Transmitter  
TFT Edition.



**TEX2503TFT**

2500W Compact Stereo Transmitter  
TFT Edition.



**TEX5004TFT**

5000W Compact Stereo Transmitter  
TFT Edition.



Parameters	U.M.	TEX1002TFT	TEX1003TFT	TEX1703TFT	Notes
		Value			
<b>GENERALS</b>					
Frequency range	MHz	87,5 - 108			
Rated output power	W	1000		1700	Continuously adjustable from 10 to 100%
Modulation type		F300E			
Operational mode		Mono, Stereo, MPX			
Working temperature	°C	-5 to + 50			
Working humidity	%	95			Without condensing
Working altitude	m	Up to 3000			With adequate air evacuation system in site
Frequency programmability	kHz	10			Step
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1			
Modulation capability	Referred @ 0dBu for 75kHz kHz	150			Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50, 75			Selectable
<b>POWER REQUIREMENTS</b>					
AC Power input	AC Supply Voltage	VAC	230 ±15%		
	AC Apparent Power Consumption	VA	1450	1550	2260
	Active Power Consumption	W	1447	1500	2210
	Power Factor		0,998		
	Overall Efficiency	%	Typical 70*		* Up to 72 in specific conditions.
Connector		VDE 16A			
<b>MECHANICAL DIMENSIONS</b>					
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE	132 / 5 1/4 3HE	
	Overall depth	mm	561	564	
	Chassis depth	mm	470	517	
Weight	kg	Approx. 12	Approx. 20,50	Approx. 26	
Cooling		Forced, with internal fan			
Acoustic noise	dBA	< 75			
<b>AUDIO INPUTS</b>					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level / Adjust	dBu	-12 to +12		Continuously adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-12 to +12		Continuously adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Input Level / Adjust	dBu	-12 to +12		For 7,5 KHz FM, adjustable
SCA/RDS	Connector		2 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Subcarrier Level @ 0 dBu	dB	-17 to -40		For 7,5 KHz FM, adjustable
AES/EBU (optional)	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	110		
	Input Level / Adjust	dBfs	0 to -10		For 7,5 KHz FM, adjustable
TOS/Link (optional)	Connector		TOSLINK		
	Type		Optical		
<b>OUTPUTS</b>					
RF Output	Connector		7/8"	7/16"	
	Impedance	Ohm	50		
RF Monitor	Connector		BNC		
	Impedance	Ohm	50		
	Output Level	dBm	0 ± 4		
Pilot output	Connector		BNC		
	Load Impedance	Ohm	>5 k		
Output Level	Vpp	1		Sinusoidal	
<b>FUSES</b>					
On mains		2 External fuse F 16 A - 6x30 mm			
On services		X			
On PA Supply		X			
On driver supply		X			

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Parameters	U.M.	TEX2003TFT		TEX2503TFT		TEX5004TFT		Notes
		Value		Value		Value		
<b>GENERALS</b>								
Frequency range	MHz			87,5 - 108				
Rated output power	W	2000		2500		5000		Continuously adjustable from 10 to 100%
Modulation type				F300E				
Operational mode				Mono, Stereo, MPX				
Working temperature	°C			-5 to + 50				
Working humidity	%			95				Without condensing
Working altitude	m			Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz			10				
Frequency stability	Working Temp. from -5°C to 50°C			ppm		±1		
Modulation capability	Referred @ 0dBu for 75kHz			kHz		150		Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS			0, 50, 75				Selectable
<b>POWER REQUIREMENTS</b>								
AC Power input	AC Supply Voltage	VAC	230 ±15%		400 ±10%		Monophase   Threephases Y	
	AC Apparent Power Consumption	VA	2860		3550		7366	
	Active Power Consumption	W	2854		3543		7352	
	Power Factor				0,998			
	Overall Efficiency	%			Typical 70*		*Up to 72 in specific conditions	
Connector		VDE 16A		ILME CFX 4/2				
<b>MECHANICAL DIMENSIONS</b>								
Physical dimensions	Front panel width	mm / inch	483 / 19				EIA rack	
	Front panel height	mm / inch	132 / 5 1/4 3HE		177 / 7 4HE			
	Overall depth	mm	564		745			
	Chassis depth	mm	517		700			
Weight	kg	Approx. 25		Approx. 27,5		Approx 42		
Cooling				Forced, with internal fan				
Acoustic noise	dBA			< 75				
<b>AUDIO INPUTS</b>								
Left / Mono	Connector				XLR F			
	Type				Balanced			
	Impedance	Ohm			10 k or 600			
	Input Level / Adjust	dBu			-12 to +12		Continuously adjustable	
Right	Connector				XLR F			
	Type				Balanced			
	Impedance	Ohm			10 k or 600			
	Input Level	dBu			-12 to +12		Continuously adjustable	
MPX	Connector				BNC			
	Type				Unbalanced			
	Impedance	Ohm			10 k			
	Input Level / Adjust	dBu			-12 to +12		For 7,5 KHz FM, adjustable	
SCA/RDS	Connector				2 x BNC			
	Type				Unbalanced			
	Impedance	Ohm			10 k			
	Subcarrier Level @ 0 dBu	dB			-17 to -40		For 7,5 KHz FM, adjustable	
AES/EBU (optional)	Connector				XLR F			
	Type				Balanced			
	Impedance	Ohm			110			
	Input Level / Adjust	dBfs			0 to -10		For 7,5 KHz FM, adjustable	
TOS/Link (optional)	Connector				TOS-LINK			
	Type				Optical			
<b>OUTPUTS</b>								
RF Output	Connector		7/16"		7/8"			
	Impedance	Ohm			50			
RF Monitor	Connector				BNC			
	Impedance	Ohm			50			
	Output Level	dBm			0 ± 4			
Pilot output	Connector				BNC			
	Load Impedance	Ohm			>5 k			
	Output Level	Vpp			1		Sinusoidal	
<b>FUSES</b>								
On mains		2 External fuse F 25 A - 6x30 mm		3 External fuse F 20 T - 10x38 mm				
On services		X		X				
On PA Supply		X		X				
On driver supply		X		1 Internal Fuse F6,3T 5x20 mm				

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# PTX-LCD SERIES

PROFESSIONAL ANALOGIC

from 30W to 150W

MODELS

PTX30LCD/S  
PTX50LCD/S

PTX100LCD/S  
PTX150LCD/S



- **Globally recognized as the most sold professional exciter.**
- **Excellent as exciter in modular systems or as a compact transmitter.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **10% - 100% Output Power continuously adjustable.**
- **Fold-back control for effective "VSRW" protection.**
- **Includes IAMLC: Intelligent Automatic Modulation Level Control.**
- **Built-in high-performance stereo coder.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Auxiliary input for SCA / RDS signals.**

ORDERING INFORMATION	
Model	Description
PTX30LCD/S	30W Compact Stereo Transmitter.
PTX50LCD/S	50W Compact Stereo Transmitter.
PTX100LCD/S	100W Compact Stereo Transmitter.
PTX150LCD/S	150W Compact Stereo Transmitter.

OPTION	
/08DIG-PTX-16	Telemetry system via parallel interface.
/10MHZ-PTX	External 10MHZ cable.





**PTX30LCD/S**

30W Compact Stereo Transmitter.



**PTX50LCD/S**

50W Compact Stereo Transmitter.



**PTX100LCD/S**

100W Compact Stereo Transmitter.



**PTX150LCD/S**

150W Compact Stereo Transmitter.



Parameters	U.M.	PTX30LCD/S		PTX50LCD/S		Notes
		Value		Value		
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	30		50	Continuously adjustable from 10 to 100%	
Modulation type		Direct carrier frequency				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	95				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz kHz	150 Stereo, 200 Mono/MPX				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250			
	AC Apparent Power Consumption	VA	135		220	
	Active Power Consumption	W	95		150	
	Power Factor		0,68			
	Overall Efficiency	%	Typical 31		Typical 33	
Connector		IEC Standard				
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width	mm / inch	483 / 19			EIA rack
	Front panel height	mm / inch	88 / 3 1/2 ZHE			
	Overall depth	mm	400			
	Chassis depth	mm	389			
Weight	kg	About 10		About 13		
Cooling		Forced, with internal fan				
Acoustic noise	dBa	< 56				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-13 to +14			1 dB step adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k or 50			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
SCA/RDS	Connector		3 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			Adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS LINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30			
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>4.7 k			
	Output Level	Vpp	1			Simusoidal
<b>FUSES</b>						
On mains		1 External fuse F 6,3 T - 5x20 mm				
On services		X				
On PA Supply		1 External fuse F 6,3 A - 5x20 mm		1 External fuse F 10 A - 5x20 mm		
On driver supply		X				

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		PTX100LCD/S	PTX150LCD/S		
Parameters	U.M.	Value		Notes	
<b>GENERALS</b>					
Frequency range	MHz	87,5 ± 108			
Rated output power	W	100	150	Continuously adjustable from 10 to 100%	
Modulation type		Direct carrier frequency			
Operational mode		Mono, Stereo, Multiplex			
Working temperature	°C	-5 to +50			
Working humidity	%	95		Without condensing	
Working altitude	m	Up to 3000		With adequate air evacuation system in site	
Frequency programmability	kHz	From software, with 10		Steps	
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1			
Modulation capability	Referred @ 0dBu for 75kHz kHz	150 Stereo, 200 Mono/MPX		Meets or exceeds all FCC and CCIR rules	
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)		Selectable	
<b>POWER REQUIREMENTS</b>					
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250		
	AC Apparent Power Consumption	VA	350	458	
	Active Power Consumption	W	250	330	
	Power Factor		0,71	0,72	
	Overall Efficiency	%	Typical 40	Typical 45	
Connector		IEC Standard			
<b>MECHANICAL DIMENSIONS</b>					
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack
	Front panel height	mm / inch	88 / 3 1/2 ZHE		
	Overall depth	mm	400		
	Chassis depth	mm	389		
Weight	kg	About 15			
Cooling		Forced, with internal fan			
Acoustic noise	dBA	< 56			
<b>AUDIO INPUTS</b>					
Left / Mono	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level / Adjust	dBu	-13 to +14		1 dB step adjustable
Right	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	10 k or 600		
	Input Level	dBu	-13 to +14		1 dB step adjustable
MPX	Connector		BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k or 50		
	Input Level / Adjust	dBu	-13 to +14		1 dB step adjustable
SCA/RDS	Connector		3 x BNC		
	Type		Unbalanced		
	Impedance	Ohm	10 k		
	Subcarrier Level @ 0 dBu	dB	-17 to -40		Adjustable
AES/EBU (optional)	Connector		XLR F		
	Type		Balanced		
	Impedance	Ohm	110		
TOS/Link (optional)	Connector		TOS-LINK		
	Type		Optical		
<b>OUTPUTS</b>					
RF Output	Connector		N type		
	Impedance	Ohm	50		
RF Monitor	Connector		BNC		
	Impedance	Ohm	50		
	Output Level	dBm	Approx. -30		
Pilot output	Connector		BNC		
	Load Impedance	Ohm	>4.7 k		
	Output Level	Vpp	1		Sinusoidal
<b>FUSES</b>					
On mains		1 External fuse F 6,3 T - 5x20 mm			
On services		X			
On PA Supply		1 External fuse F 10 A - 5x20 mm			
On driver supply		X			

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# PTX-LCDDSP SERIES

DSP EVOLUTION

from 30W to 150W

MODELS

PTX30LCDDSP  
PTX50LCDDSP

PTX100LCDDSP  
PTX150LCDDSP



- **Clear and transparent sound quality.**
- **Noise / signal ratio as low as 90dB.**
- **Low distortion and stereo separation as high as 60dB.**
- **Full compliance with EC, FCC and CCIR standards.**
- **"SFN" Single Frequency Network (option).**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **0% - 100% Output Power continuously adjustable.**
- **Fold-back control for effective "VSRW" protection.**
- **Includes IAMLC: Intelligent Automatic Modulation Level Control.**
- **Built-in high-performance stereo coder.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Auxiliary input for SCA / RDS signals.**
- **Included ITU audio limiter to controll emissions into the spectrum.**
- **Built-in digital RDS encoder with UECP standard functions.**

ORD RING INFORMATION	
Model	
<b>PTX30LCDDSP</b>	<b>30W</b> Compact Stereo Transmitter.
<b>PTX50LCDDSP</b>	<b>50W</b> Compact Stereo Transmitter.
<b>PTX100LCDDSP</b>	<b>100W</b> Compact Stereo Transmitter.
<b>PTX150LCDDSP</b>	<b>150W</b> Compact Stereo Transmitter.

OPTION	
<b>/SFN-PTX</b>	Supports SFN applications.
<b>/08DIG-PTX-16</b>	Telemetry system via parallel interface.
<b>/10MHZ-PTX</b>	External 10MHZ cable.





**PTX30LCDDSP**

30W Compact Stereo Transmitter.



**PTX50LCDDSP**

50W Compact Stereo Transmitter.



**PTX100LCDDSP**

100W Compact Stereo Transmitter.



**PTX150LCDDSP**

150W Compact Stereo Transmitter.



Parameters	U.M.	PTX30LCDDSP		PTX50LCDDSP		Notes
		Value		Value		
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	30		50	Continuously adjustable from 10 to 100%	
Modulation type		Direct carrier frequency				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	85				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz	150 Stereo, 200 Mono/MPX				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250			
	AC Apparent Power Consumption	VA	135		220	
	Active Power Consumption	W	95		150	
	Power Factor		0,7			
	Overall Efficiency	%	Typical 31		Typical 33	
	Connector		IEC Standard			
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack	
	Front panel height	mm / inch	88 / 3 1/2 2HE			
	Overall depth	mm	400			
	Chassis depth	mm	389			
Weight	kg	About 10		About 13		
Cooling		Forced, with internal fan				
Acoustic noise	dBA	< 56				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-13 to +14			1 dB step adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k or 50			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
SCA/RDS	Connector		3 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			Adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS LINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30			
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>4.7 k			
	Output Level	Vpp	1			Sinusoidal
<b>FUSES</b>						
On mains		1 External fuse F 6,3 T - 5x20 mm				
On services		X				
On PA Supply		1 External fuse F 6,3 A - 5x20 mm		1 External fuse F 10 A - 5x20 mm		
On driver supply		X				

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		PTX100LCDDSP		PTX150LCDDSP		
Parameters	U.M.	Value		Value		Notes
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	100		150		Continuously adjustable from 10 to 100%
Modulation type		Direct carrier frequency				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	85				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10				Steps
Frequency stability	ppm	±1				
Modulation capability	kHz	150 Stereo, 200 Mono/MPX				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250			
	AC Apparent Power Consumption	VA	350	458		
	Active Power Consumption	W	250	330		
	Power Factor		0,71	0,72		
	Overall Efficiency	%	Typical 40		Typical 45	
Connector		IEC Standard				
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack	
	Front panel height	mm / inch	88 / 3 1/2 ZHE			
	Overall depth	mm	400			
	Chassis depth	mm	389			
Weight	kg	About 15				
Cooling		Forced, with internal fan				
Acoustic noise	dBA	< 56				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-13 to +14		1 dB step adjustable	
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-13 to +14		1 dB step adjustable	
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k or 50			
	Input Level / Adjust	dBu	-13 to +14		1 dB step adjustable	
SCA/RDS	Connector		3 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40		Adjustable	
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS-LINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30			
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>4.7 k			
Output Level	Vpp	1		Sinusoidal		
<b>FUSES</b>						
On mains		1 External fuse F 6,3 T - 5x20 mm				
On services		X				
On PA Supply		1 External fuse F 10 A - 5x20 mm				
On driver supply		X				

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# PTX-DDS SERIES

FULL DIGITAL DDS

from 30W to 1000W MODELS

PTX30DDS    PTX150DDS  
PTX100DDS    PTX1000DDS



- **Full Digital modulation of the carrier directly on the operating frequency without any conversion.**
- **DDS "Direct to Channel" Exciter / Transmitter.**
- **Generates a RF signal free from mechanical disturbances.**
- **Clear and transparent digital audio .**
- **Noise / signal ratio as low as 90dB.**
- **Low distortion and stereo separation as high as 70dB.**
- **"SFN" Single Frequency Network (option).**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **0% - 100% Output Power continuously adjustable.**
- **Fold-back control for effective "VSRW" protection.**
- **Includes IAMLC: Intelligent Automatic Modulation Level Control.**
- **Timing, Priority and Changeover functions on all audio inputs.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Built-in high-performance stereo coder.**
- **Auxiliary input for SCA / RDS signals.**
- **Included ITU audio limiter to controll emissions into the spectrum.**
- **Suitable for isofrequency applications thanks to a optional SFN board.**
- **Built-in digital RDS encoder with UECP standard functions.**
- **WEB, SNMP2, GSM, Serial remote controls (option).**

ORDERING INFORMATION	
Model	Description
PTX30DDS	30W Compact Stereo Transmitter.
PTX100DDS	100W Compact Stereo Transmitter.
PTX150DDS	150W Compact Stereo Transmitter.
PTX1000DDS	1000W Compact Stereo Transmitter.

OPTION	
/SFN-DDS	Supports SFN applications.
/TLW-DDS-E	WEB & SNMP telemetry extension card.
/TLW-DDS-AOIP	Audio over IP , WEB , SNMP telemetry extension card.
/08-DIG-DDS	Telemetry via parallel interface.
/09-DIG-DDS	Digital telemetry via SCM6 interface.
/10MHZ-DDS	External 10MHZ cable.





**PTX300DDS**

30W Compact Stereo Transmitter.



**PTX100DDS**

100W Compact Stereo Transmitter.



**PTX150DDS**

150W Compact Stereo Transmitter.



**PTX1000DDS**

1000W Compact Stereo Transmitter.



		PTX30DDS		PTX100DDS		
Parameters	U.M.	Value		Value		Notes
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	30		100		Continuously adjustable from 10 to 100%
Modulation type		Direct Digital Synthesis				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	95				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 1, 10, 100, 1000				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz	150				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Supply Voltage	VAC	115 / 230 ±15%				Internal switch
AC Apparent Power Consumption	VA	280		410		
AC Power input	Active Power Consumption	W	160		250	
	Power Factor		0,57		0,6	
	Overall Efficiency	%	Typical 18		Typical 40	
	Connector		VDE IEC Standard			
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width	mm / inch	483 / 19			EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE			
	Overall depth	mm	400			
	Chassis depth	mm	389			
Weight	kg	About 10				
Cooling		Forced, with internal fan				
Acoustic noise	dBA	< 56				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-12,5 to +12,5			0,1 dB step adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-12,5 to +12,5			0,1 dB step adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Input Level / Adjust	dBu	-12,5 to +12,5			0,1 dB step adjustable
SCA/RDS	Connector		2 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			0,5 dB step adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS LINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30		Approx. -40	
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>600 k			
	Output Level	Vpp	2,2			Sinusoidal
<b>FUSES</b>						
On mains		1 External fuse F 6,3 AT - 5x20 mm				
On services		X				
On PA Supply		X				
On driver supply		X				

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Parameters	U.M.	PTX150DDS		PTX1000DDS		Notes	
		Value		Value			
<b>GENERALS</b>							
Frequency range	MHz	87,5 ÷ 108					
Rated output power	W	150			1000	Continuously adjustable from 10 to 100%	
Modulation type		Direct Digital Synthesis					
Operational mode		Mono, Stereo, Multiplex					
Working temperature	°C	-5 to + 50					
Working humidity	%	95				Without condensing	
Working altitude	m	Up to 3000				With adequate air evacuation system in site	
Frequency programmability	kHz	From software, with 1, 10, 100, 1000				Steps	
Frequency stability	Working Temp. from -5°C to 50°C	ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz	kHz	150				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)				Selectable	
<b>POWER REQUIREMENTS</b>							
AC Power input	AC Supply Voltage	VAC	115 / 230 ±15%	80 ÷ 260		Internal switch	
	AC Apparent Power Consumption	VA	520	1460			
	Active Power Consumption	W	310	1450			
	Power Factor		0,61	0,99			
	Overall Efficiency	%	Typical 48	Typical 70			
	Connector		VDE IEC Standard		Terminal Block		
<b>MECHANICAL DIMENSIONS</b>							
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack		
	Front panel height	mm / inch	88 / 3 1/2 2HE	132 / 5 1/4 3HE			
	Overall depth	mm	500				
	Chassis depth	mm	389				
Weight	kg	About 10		About 17			
Cooling		Forced, with internal fan					
Acoustic noise	dBA	< 56		< 65			
<b>AUDIO INPUTS</b>							
Left / Mono	Connector		XLR F				
	Type		Balanced				
	Impedance	Ohm	10 k or 600				
	Input Level / Adjust	dBu	-12,5 to +12,5				0,1 dB step adjustable
Right	Connector		XLR F				
	Type		Balanced				
	Impedance	Ohm	10 k or 600				
	Input Level	dBu	-12,5 to +12,5				0,1 dB step adjustable
MPX	Connector		BNC				
	Type		Unbalanced				
	Impedance	Ohm	10 k				
	Input Level / Adjust	dBu	-12,5 to +12,5				0,1 dB step adjustable
SCA/RDS	Connector		2 x BNC				
	Type		Unbalanced				
	Impedance	Ohm	10 k				
	Subcarrier Level @ 0 dBu	dB	-17 to -40				0,5 dB step adjustable
AES/EBU (optional)	Connector		XLR F				
	Type		Balanced				
	Impedance	Ohm	110				
TOS/Link (optional)	Connector		TOS LINK				
	Type		Optical				
<b>OUTPUTS</b>							
RF Output	Connector		N type	7/8 type			
	Impedance	Ohm	50				
RF Monitor	Connector		BNC				
	Impedance	Ohm	50				
	Output Level	dBm	Approx. -40				
Pilot output	Connector		BNC				
	Load Impedance	Ohm	>600 k				
	Output Level	Vpp	2,2				Sinusoidal
<b>FUSES</b>							
On mains		1 External fuse F 6,3 AT - 5x20 mm					
On services		X					
On PA Supply		X					
On driver supply		X					

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# DIGITAL RADIO

DAB+ / DMB DIGITAL RADIO

**RVR Elettronica, which has always been committed to Digital Radio, already designed the Gold Video series in 2000, a line of transmitters with Teamcast cores that support current digital standards (DAB-DAB + / DMB). This historic family of devices has now been renewed with the DRT family which represents the state of the art. DAB+/DMB Transmitters 50W to 1.000W.  
Gold Video Family - Last generation DRT Serie.**

- **Fully agile from 175 to 240 MHz without any adjustment.**
- **Support MFN and SFN with integrated GPS Receiver.**
- **Teamcast Modulator Core for the highest modulation quality.**
- **Rugged for stable operation, high MTBF and long life.**
- **Output power range from 50W to 1 KW, other on request.**
- **Linear and Adaptive precorrection (auto function).**
- **Compact 19" standard cabin : DRT 500W in 2 HE, 1000W in 4 HE.**
- **Optional SAT Receiver DVBS/ DVBS2.**
- **High MER (typical 35 dB @ full Output Power).**
- **High Shoulders (typical 40 dB without Output Filter).**
- **Linear and Adaptive precorrection (auto function).**
- **RF Doherty Amplifier for maximum of Efficiency (only DRT).**
- **Colour 3.5" Touch Screen for easy setting (only DRT).**
- **SNMP2 Telemetry (only DRT).**
- **Innovative monitoring over Telegram™ (only DRT).**

# DRT SERIES

DAB+ DMB DIGITAL RADIO



from 50W to 1000W

## MODELS

DRT50

DRT250

DRT700

DRT100

DRT300

DRT1000

DRT150

DRT500



- **Designed to ensure stable operations, high MTBF and long life.**
- **State of the art evolution of the RVR GOLD Family.**
- **Output power range from 50W to 1 KW, other on request.**
- **Teamcast core for an undisputed modulation quality.**
- **Compact cabin : 2 units up to 500W 4 units up to 1000W rms.**
- **Fully agile from 175 to 240 MHz without any adjustment.**
- **Support MFN and SFN configuration with integrated GPS Receiver.**
- **Broadband Doherty Amplifier for maximum of Efficiency.**
- **Optional SAT Receiver DVBS/ DVBS2.**
- **Colour 3.5" Touch Screen and buttons for easy setting.**
- **High MER (typical 35 dB @ full Output Power).**
- **High Shoulders (typical 40 dB without Output Filter).**
- **Linear and Adaptative precorrection (auto function).**
- **SNMP2 Remote control.**
- **Innovative network monitoring capability over Telegram™ (option).**

ORDERING INFORMATION	
Model	Description
<b>DRT50</b>	TX DAB+ compact 2 units Rack Doherty 50W rms with integrated Rx GPS.
<b>DRT100</b>	TX DAB+ compact 2 units Rack Doherty 100W rms with integrated Rx GPS.
<b>DRT150</b>	TX DAB+ compact 2 units Rack Doherty 150W rms with integrated Rx GPS.
<b>DRT250</b>	TX DAB+ compact 2 units Rack Doherty 250W rms with integrated Rx GPS.
<b>DRT300</b>	TX DAB+ compact 2 units Rack Doherty 300W rms with integrated Rx GPS.
<b>DRT500</b>	TX DAB+ compact 2 units Rack Doherty 500W rms with integrated Rx GPS.
<b>DRT700</b>	TX DAB+ compact 4 units Rack Doherty 700W rms with integrated Rx GPS.
<b>DRT1000</b>	TX DAB+ compact 4 units Rack Doherty 1000W rms with integrated Rx GPS.

OPTION	
OPTION	Description
<b>/TWINEDI</b>	Dual EDI inputs.
<b>/RXDVBS2</b>	Integrated DVBS-DVBS2 receiver.
<b>/RXGLONS</b>	Integrated glonass receiver.
<b>/TELEGRAM</b>	Telegram™ interface.
<b>/SURSATIN</b>	Surge protector RF satellite input.
<b>/SURLAIN</b>	Surge protector for LAN input.
<b>/GPSANTS</b>	GPS antenna with support.



DRT50

50W Compact Transmitter.



DRT100

100W Compact Transmitter.



DRT150

150W Compact Transmitter.



DRT250

250W Compact Transmitter.



DRT300

300W Compact Transmitter.



DRT500

500W Compact Transmitter.





**DRT700**

700W Compact Transmitter.



**DRT1000**

1000W Compact Transmitter.



Parameters	U.M.	DRT50	DRT100	DRT150	Notes	
<b>GENERALS</b>						
Frequency range	according standard	MHz	VHF Bd.III from 175 to 240			
Rated output power	rms	W	50	100	150	
Standards	for DAB/DAB+		DAB-DAB+ : ETSI EN 300401v1.4.1-30277-2			
Standards :	for DMB		DMB: EN 62516-1:2009			
MER @ full Power		dB	> 34 ( Typical 35)			
Shoulder @ full power	without Channel Filter	dB	> 38			
Operational mode	DAB		Mode I, Mode II, Mode III, Mode IV			
Network Mode	DAB-DAB+ / DMB		MFN / SFN			
Synchronisation	integrated GPS Receiver		GPS standard (GLONASS opzion) Nf for antenna			
Precorrection	linear, non linear		static, single, continuous, adaptative			
RF Output connector			Nf (DRT50)	Nf (DRT100)	Nf (DRT150)	
<b>ENVIRONMENTAL WORKING PARAMETERS</b>						
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing			
Working altitude		mt. absl	standard : 2500 / optional: 3000			
Cooling	forced air cooling		2 blowers	2 blowers	3 blowers	
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width/height	mm / inch	482.60/ 19" EIA - 2 HE (88.90)			EIA rack
	Overall depth	mm / inch	550 / 21.65			
	Chassis depth	mm / inch	520 / 20.47			
	Weight	kg	About 11	About 11	About 13	
<b>MAINS POWER REQUIREMENTS</b>						
AC Power Consumption (@ 25°C Temperature)	AC Supply Voltage	VAC	single phase 230 V / 50Hz - 110 V / 60Hz ± 15%			
	Apparent / Active	VA / W-KW	307 / 300	355 / 345	408 / 400	
	Power Factor	%	0,98			
	Overall Efficiency (@°C)	%	30-35	30-35	38-40	
	On Mains / on PA	A	6.3 / 10	6.3 / 10	8 / 20	
<b>INPUT / OUTPUT INTERFACES</b>						
ETI / EDI INTERFACES / ETSI ETS 300 799 v 1.5.1			2 x G703 ( BNC 75 Ohm ), NI (G703), NA5376 (G704), auto detection @ 2040 kbps ± 50 ppm / 1 x ETI OUT ( BNC 75 Ohm)			
IP STREAM INTERFACE			2 x 10/100/1000 base T ( RJ45)IP, RTP, UDP, IGMP (V2&V3) , V-LAN ID (1to 4094), IEEE 802.1q EDI De-Encapsulation ( TS 102 693)			
RX SAT RECEIVER DVBS/S2 Integrated (option)			1 x INPUT DVBS2 (950-2150 MHz) (F75 Ohm), -25/-62 DbM, gse De-Encapsulation ( TS 102606)			
CONTROL/ MONITORING			1 x 10/100/1000 Ethernet (RJ45), WEB GUI SNMP) 3.5 " Colour Touch Screen and buttons			
COMPLIANCE & CONFORMITY			RED 2014/53/ EU, Safety EN 60215 , EMC EN 301-489-1/53, ETSI EN 302 077			
<b>AVAILABLE OPTIONS:</b>						
/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS						

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		DRT250		DRT300		DRT500				
Parameters		U.M.		Value				Notes		
<b>GENERALS</b>										
Frequency range	according standard	MHz	VHF Bd.III from 175 to 240							
Rated output power	rms	W	250	300	500					
Standards	for DAB/DAB+	DAB-DAB+ : ETSI EN 300401v1.4.1-30277-2								
Standards :	for DMB	DMB: EN 62516-1:2009								
MER @ full Power		dB	> 34 ( Typical 35)							
Shoulder @ full power	without Channel Filter	dB	> 38							
Operational mode	DAB	Mode I, Mode II, Mode III, Mode IV								
Network Mode	DAB-DAB+ / DMB	MFN / SFN								
Synchronisation	integrated GPS Receiver	GPS standard (GLONASS opzion) Nf for antenna								
Precorrection	linear, non linear	static, single, continuous, adaptative								
RF Output connector			Nf (DRT250)	Nf (DRT300)	DIN 7/16" f (DRT500)					
<b>ENVIRONMENTAL WORKING PARAMETERS</b>										
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing							
Working altitude		mt. abst	standard : 2500 / optional: 3000							
Cooling	forced air cooling		4 blowers							
<b>MECHANICAL DIMENSIONS</b>										
Phisical dimensions	Front panel width /height	mm / inch	482.60/ 19" EIA - 2 HE (88.90)						EIA rack	
	Overall depth	mm / inch	550 / 21.65							
	Chassis depth	mm / inch	520 / 20.47							
	Weight	kg	About 15							
<b>MAINS POWER REQUIREMENTS</b>										
AC Power Consumption (@ 25°C Temperature)	AC Supply Voltage	VAC	single phase 230 V / 50Hz - 110 V / 60Hz ± 15%							
	Apparent / Active	VA / W-KW	735/720	845/830	1.32/1.3					
	Power Factor	%	0,98							
	Overall Efficiency (@°C)	%	38-40							
	On Mains / on PA	A	8 /20	8 /20	6.16 / 2x20					
<b>INPUT / OUTPUT INTERFACES</b>										
<b>ETI / EDI INTERFACES / ETSI ETS 300 799 v 1.5.1</b>		2 x G703 ( BNC 75 Ohm) ,NI (G703), NA5376 (G704), auto detection @ 2040 kbps ± 50 ppm / 1 x ETI OUT ( BNC 75 Ohm)								
<b>IP STREAM INTERFACE</b>		2 x 10/100/1000 base T ( RJ45)IP, RTP, UDP, IGMP (V2&V3) , V-LAN ID (1to 4094), IEEE 802.1q EDI De-Encapsulation (TS 102 693)								
<b>RX SAT RECEIVER DVBS/S2</b> Integrated (option)		1 x INPUT DVBS2 (950-2150 MHz) (F75 Ohm), -25/-62 DbM, gse De-Encapsulation ( TS 102606)								
<b>CONTROL/ MONITORING</b>		1 x 10/100/1000 Ethernet (RJ45), WEB GUI SNMP) 3.5 " Colour Touch Screen and buttons								
<b>COMPLIANCE &amp; CONFORMITY</b>		RED 2014/53/ EU, Safety EN 60215 , EMC EN 301-489-1/53, ETSI EN 302 077								
<b>AVAILABLE OPTIONS:</b>		/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS								

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		DRT700		DRT1000		Notes
Parameters		U.M.	Value			
<b>GENERALS</b>						
Frequency range	according standard	MHz	VHF Bd.III from 175 to 240			
Rated output power	rms	W	700		1000	
Standards	for DAB/DAB+		DAB-DAB+ : ETSI EN 300401v1.4.1-30277-2			
Standards :	for DMB		DMB: EN 62516-1:2009			
MER @ full Power		dB	> 34 ( Typical 35)			
Shoulder @ full power	without Channel Filter	dB	> 38			
Operational mode	DAB		Mode I, Mode II, Mode III, Mode IV			
Network Mode	DAB-DAB+ / DMB		MFN / SFN			
Synchronisation	integrated GPS Receiver		GPS standard (GLONASS opzion) Nf for antenna			
Pre-correction	linear, non linear		static, single, continuous, adaptative			
RF Output connector			DIN 7/16" female / EIA 7/8" Flange			
<b>ENVIRONMENTAL WORKING PARAMETERS</b>						
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing			
Working altitude		mt. absl	standard : 2500 / optional: 3000			
Cooling	forced air cooling		9 blowers			
<b>MECHANICAL DIMENSIONS</b>						
Physical dimensions	Front panel width/height	mm / inch	482.60 / 19" EIA - 4 HE (177.80)			
	Overall depth	mm / inch	635 / 25			
	Chassis depth	mm / inch	580 / 22.83			
	Weight	kg	About 23			
<b>MAINS POWER REQUIREMENTS</b>						
AC Power Consumption (@ 25°C Temperature)	AC Supply Voltage	VAC	single phase 230 V / 50Hz - 110 V / 60Hz ± 15%			
	Apparent / Active	VA / W-KW	1.990 / 1.950		2.500 / 2.450	
	Power Factor	%	0,98			
Overall Efficiency (@°C)		%	40 ( ± 5)			
	On Mains / on PA	A	MT Brek. 16 / 2x 30			
<b>INPUT / OUTPUT INTERFACES</b>						
<b>ETI / EDI INTERFACES / ETSI ETS 300 799 v 1.5.1</b>			2 x G703 ( BNC 75 Ohm) ,NI (G703), NA5376 (G704), auto detection @ 2040 kbps ± 50 ppm / 1 x ETI OUT ( BNC 75 Ohm)			
<b>IP STREAM INTERFACE</b>			2 x 10/100/1000 base T ( RJ45)IP, RTP, UDP, IGMP (V2&V3) , V-LAN ID (1to 4094), IEEE 802.1q EDI De-Encapsulation ( TS 102 693)			
<b>RX SAT RECEIVER DVBS/S2</b> Integrated (option)			1 x INPUT DVBS2 (950-2150 MHz) (F75 Ohm), -25/-62 DbM, gse De-Encapsulation ( TS 102606)			
<b>CONTROL/ MONITORING</b>			1 x 10/100/1000 Ethernet (RJ45), WEB GUI SNMP 3.5 " Colour Touch Screen and buttons			
<b>COMPLIANCE &amp; CONFORMITY</b>			RED 2014/53/ EU, Safety EN 60215 , EMC EN 301-489-1/53, ETSI EN 302 077			
<b>AVAILABLE OPTIONS:</b>			/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS			

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# FM STATIONS

AIR-COOLED STATIONS AND TRANSMITTING SYSTEMS

**We have a complete range of air-cooled stations and transmitting systems for powers from 1000 W to 60 KW in modular or hot-pluggable configuration, in 1 + 0, 1 + 1 or N + 1 integrated with accessories and telemetry systems according to customer needs.**

# TX-KSS MODULAR SERIES

MID/HIGH POWER AIR COOLED

from 2000W to 14.000W

MODELS

TX02KSS

TX03KSS

TX3K5SS

TX04KSS

TX05KSS

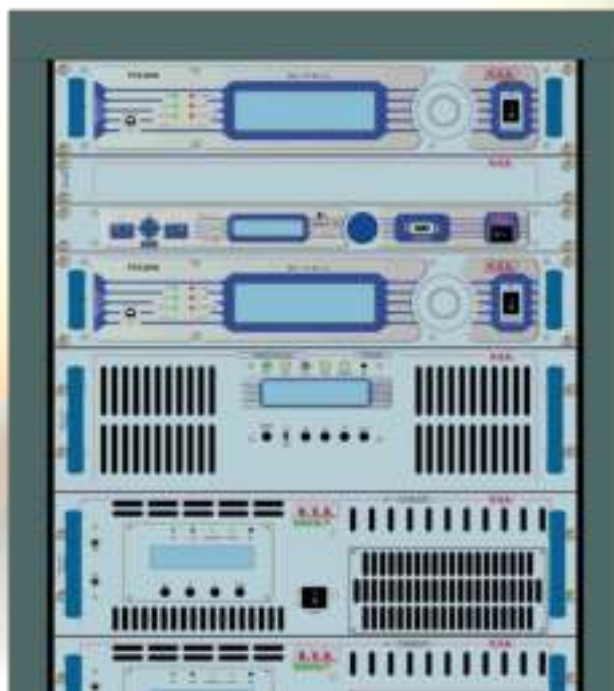
TX07KSS

TX7K5SS

TX10KSS

TX12KSS

TX14KSS



- **Scalable Solution from 2.000W to 14.000W.**
- **Best transmission quality, at the best market place.**
- **The most flexible combinations available for high reliability and redundancy**
- **N+1 Configuration available for 24/7 business continuity.**
- **Tunable over the entire FM band 87.5 - 108 MHz, without tuning. Other bands on request.**
- **WEB, SNMP2, GSM, Serial remote controls (option).**
- **Full compliance with EC, FCC and CCIR standards.**

#### **Exciters:**

- **BLUES, TEX, PTX Series depending on client's requirements and budget.**
- **Single and Dual Drive with automatic or manual changeover.**
- **Fold-back control for effective "VSRW" protection.**
- **Including IAMLC: Intelligent Automatic Modulation Level Control.**

#### **Amplifiers:**

- **Single amplifier's units: from 1.000W to 3.500W.**
- **High-gain with very low input drive power requirement.**
- **Adjustable power output from 10 to 100 %.**
- **Exclusive "Long Life FET" technology for mosfet life extension.**



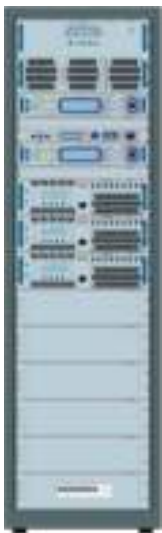
**TX05KSS/61D082B**

Modular transmitter, 5KW  
(composed of HC2 + 2x PJ2500LCD  
+ SCML1+1SL/V2 + 2x PTX100DDS).



**TX07KSS/61D122B**

Modular transmitter, 7KW  
(composed of HC2 + 2x PJ3500LCD  
+ SCML1+1SL/V2 + 2x PTX100DDS).



**TX7K5SS/61D083B**

Modular transmitter, 7.5KW  
(composed of HC3 + 3x PJ2500LCD  
+ SCML1+1SL/V2 + 2x PTX100DDS).



**TX10KSS/62D084B**

Modular transmitter, 10KW  
(composed of HC4 + 4x PJ2500LCD  
+ SCML1+1SL/V2 + 2x PTX150DDS).



## TX05KSS/61D082B

Parameters	U.M.	Value	Notes
<b>GENERAL</b>			
RF Output Power	kW	5	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	> 1	
Frequency programmability		By software, with 1, 10, 100 , 1000 kHz steps	
Nominal Frequency Deviation		±75 KHz (peak)	
Maximum Frequency Deviation		±150 KHz (peak)	
Class of Emission		180KF8E Direct to Channel	
Modulation Mode		Mono, Stereo, Multiplex, SCA, RDS, Aux	
Stereo transmissions		Acc. to ITU-R / Rec. 450 (Pilot tone)	
RF Output Impedance		50 Ω, Unbalanced	
RF Output Connector		1-5/8" EIA Flange	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Pre-emphasis Mode		0/50 (CCIR) μs, 75 (FCC) μs	
Asynchronous AM S/N Ratio	dB	Typically > 70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically < 85	
Overall efficiency	%	Typically > 70	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Analogue Input level {+75 KHz (peak) deviation }		-12,5 dBu - +12,5 dBu (adjustable)	
Digital Input level {+75 KHz (peak) deviation }		-20,0 dBFS - 0 dBFS (adjustable)	
<b>MONO OPERATION</b>			
S/N ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise	%	Typically < 0,03	
Inter Modulation Distortion SMPTE	%	Typically < 0,02	
Frequency Response	dB	Typically ± 0,2	
Audio Input Impedance		600 Ω or 10 kΩ	
<b>MPX OPERATION</b>			
Composite S/N ratio	dB	Typically > 80	
Total Harmonic Distortion + Noise	%	Typically < 0,05	
Inter Modulation Distortion	%	Typically < 0,05	
Frequency Response	dB	Typically ± 0,2	
Audio Input Impedance		10 kΩ	
<b>STEREO OPERATION</b>			
Stereo FM S/N Ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise (L or R)	%	Typically < 0,02	
Inter Modulation Distortion SMPTE (L or R)	%	Typically < 0,02	
Frequency response (L or R)	dB	Typically ± 0,2	
Linear Cross Talk	dB	Typically > 50	
Non-linear Cross Talk	dB	Typically > 50	
Stereo Separation (Sine Wave)	dB	Typically > 70	
Audio Input Impedance		600 Ω or 10 kΩ	
Digital Input Impedance		110 Ω	

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**TX10KSS/62D084B**

Parameters	U.M.	Value	Notes
<b>GENERAL</b>			
RF Output Power	kW	10	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	> 1	
Frequency programmability		By software, with 1, 10, 100 , 1000 kHz steps	
Nominal Frequency Deviation		±75 KHz (peak)	
Maximum Frequency Deviation		±150 KHz (peak)	
Class of Emission		180KF8E Direct to Channel	
Modulation Mode		Mono, Stereo, Multiplex, SCA, RDS, Aux	
Stereo transmissions		Acc. to ITU-R / Rec. 450 (Pilot tone)	
RF Output Impedance		50 Ω, Unbalanced	
RF Output Connector		1-5/8" EIA Flange	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Pre-emphasis Mode		0/50 (CCIR) μs,75 (FCC) μs	
Asynchronous AM S/N Ratio	dB	Typically > 70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically < 85	
Overall efficiency	%	Typically > 70	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Analogue Input level {+75 KHz (peak) deviation }		-12,5 dBu - +12,5 dBu (adjustable)	
Digital Input level {+75 KHz (peak) deviation }		-20,0 dBFS - 0 dBFS (adjustable)	
<b>MONO OPERATION</b>			
S/N ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise	%	Typically < 0,03	
Inter Modulation Distortion SMPTE	%	Typically < 0,02	
Frequency Response	dB	Typically ± 0,2	
Audio Input Impedance		600 Ω or 10 kΩ	
<b>MPX OPERATION</b>			
Composite S/N ratio	dB	Typically > 80	
Total Harmonic Distortion + Noise	%	Typically < 0,05	
Inter Modulation Distortion	%	Typically < 0,05	
Frequency Response	dB	Typically ± 0,2	
Audio Input Impedance		10 kΩ	
<b>STEREO OPERATION</b>			
Stereo FM S/N Ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise (L or R)	%	Typically < 0,02	
Inter Modulation Distortion SMPTE (L or R)	%	Typically < 0,02	
Frequency response (L or R)	dB	Typically ± 0,2	
Linear Cross Talk	dB	Typically > 50	
Non-linear Cross Talk	dB	Typically > 50	
Stereo Separation (Sine Wave)	dB	Typically > 70	
Audio Input Impedance		600 Ω or 10 kΩ	
Digital Input Impedance		110 Ω	

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ORDERING INFORMATION	
Model	Description
<b>TX02KSS/61D112B</b>	Modular transmitter, 2KW (composed of HC2 + 2x PJ1000LIGHT + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX03KSS/61D113B</b>	Modular transmitter, 3KW (composed of HC3 + 3x PJ1000LIGHT + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX3K5SS/60D121B</b>	Modular transmitter, 3.5KW (composed of 1x PJ3500LCD + SCML1+1SL/V2 + 2x PTX30DDS).
<b>TX04KSS/61D114B</b>	Modular transmitter, 4KW (composed of HC4 + 4x PJ1000LIGHT + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX05KSS/61D082B</b>	Modular transmitter, 5KW (composed of HC2 + 2x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX07KSS/61D122B</b>	Modular transmitter, 7KW (composed of HC2 + 2x PJ3500LCD + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX7K5SS/61D083B</b>	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100DDS).
<b>TX10KSS/62D084B</b>	Modular transmitter, 10KW (composed of HC4 + 4x PJ2500LCD + SCML1+1SL/V2 + 2x PTX150DDS).
<b>TX12KSS/62D085B</b>	Modular transmitter, 12KW (composed of HC5+ 5x PJ2500LCD + SCML1+1SL/V2 + 2x PTX150DDS).
<b>TX14KSS/62D124B</b>	Modular transmitter, 14KW (composed of HC4+ 4x PJ3500LCD + SCML1+1SL/V2 + 2x PTX150DDS).
<b>TX02KSS/61S112</b>	Modular transmitter, 2KW (composed of HC2 + 2x PJ1000LIGHT + PTX100DDS).
<b>TX03KSS/61S113</b>	Modular transmitter, 3KW (composed of HC3 + 3x PJ1000LIGHT + PTX100DDS).
<b>TX3K5SS/60S121</b>	Modular transmitter, 3.5KW (composed of 1x PJ3500LCD + PTX30DDS).
<b>TX04KSS/61S114</b>	Modular transmitter, 4KW (composed of HC4 + 4x PJ1000LIGHT + PTX100DDS).
<b>TX05KSS/61S082</b>	Modular transmitter, 5KW (composed of HC2 + 2x PJ2500LCD + PTX100DDS).
<b>TX07KSS/61S122</b>	Modular transmitter, 7KW (composed of HC2 + 2x PJ3500LCD + PTX100DDS).
<b>TX7K5SS/61S083</b>	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + PTX100DDS).
<b>TX10KSS/62S084</b>	Modular transmitter, 10KW (composed of HC4 + 4x PJ2500LCD + PTX150DDS).
<b>TX12KSS/62S085</b>	Modular transmitter, 12KW (composed of HC5+ 5x PJ2500LCD + PTX150DDS).
<b>TX14KSS/62S124</b>	Modular transmitter, 14KW (composed of HC4+ 4x PJ3500LCD + PTX150DDS).

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# TX-KSS PLUG-IN

MID/HIGH POWER HOT PLUG

from 3000W to 60.000W

**Developed for the most demanding FM Radio Networks, this line of products has been conceived for all stations that needs to ensure broadcast continuity and simplify any maintenance operation. All hot pluggable transmitters exceed ETSI/CCIR/FCC standards on RF harmonics and spurious, performing high efficiency and ensuring the clients in investing in product with a high life span.**

## MODELS

TX03KSS

TX04KSS

TX05KSS

TX06KSS

TX08KSS

TX10KSS

TX12.5KSS

TX20KSS

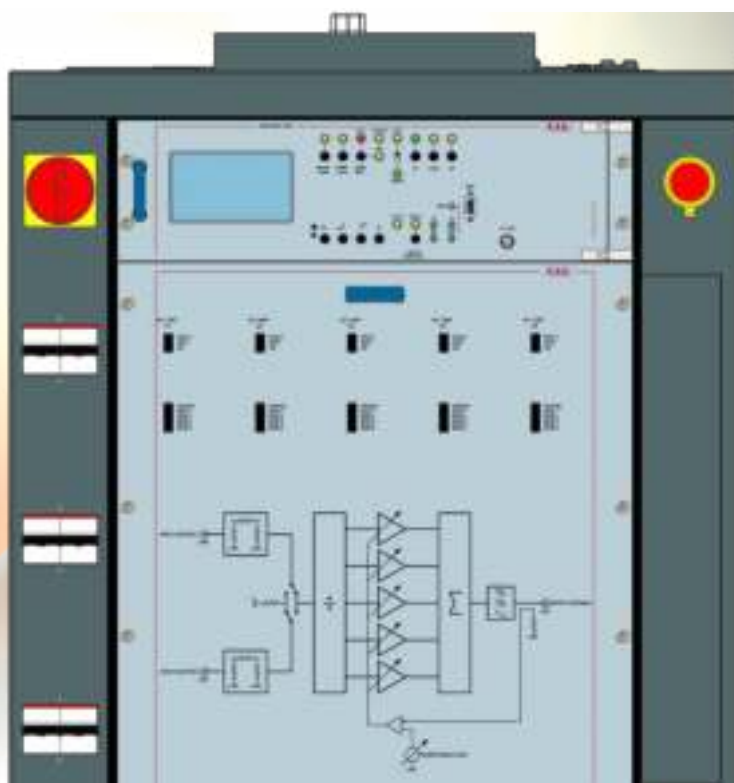
TX25KSS

TX32KSS

TX40KSS

TX50KSS

TX60KSS





- **The most reliable FM broadcasting solution on the market designed for 24/7 non-stop operation.**
- **Capable of Analog and Digital transmission depending on the configuration.**
- **Reduced failure rate thanks to hot plug-in connectors replacing most of the classical wiring.**
- **Over-dimensioned amplifiers modules.**
- **In case of fail, the total power output will not go below -3dB.**
- **Independent and hot-swap amplifier's modules.**
- **Intelligent stand alone hot-swap fan arrays.**
- **Overall efficiency up to 76% depending on the configuration.**
- **N+1 Configuration available for 24/7 business continuity.**
- **Built-in exciter's automatic or manual changeover.**
- **Simplified maintenance: common spare parts on the entire series from 3.000W to 60.000W.**
- **Tunable over the entire FM band 87.5 - 108 MHz, without tuning. Other bands on request.**
- **Remote controls: WEB, SNMP2, GSM, Serial and Complete FM monitoring (option).**
- **Exceeds ETSI/CCIR/FCC requirements regarding RF harmonics and RF spurious.**
- **Single phase or three phase power configuration.**

#### Exciters:

- **TEX, PTX Series depending on client's requirements and budget. Single and**
- **Dual Drive with automatic or manual changeover.**
- **Programmable Timing & Priority of all audio inputs depending on configuration.**
- **Fold-back control for effective "VSRW" protection.**
- **Including IAMLC: Intelligent Automatic Modulation Level Control.**
- **Low distortion and intermodulation values.**

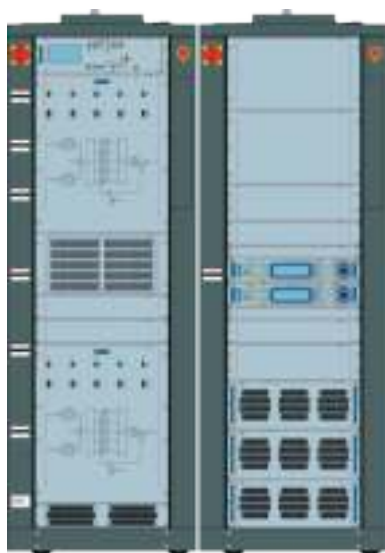
#### Amplifiers:

- **Hot Plug-in modules available in 2.300W or 2.500W depending on system's configuration.**
- **Independent power supply per each amplifier's module.**
- **Independent fan array per each amplifier's module.**
- **Automatic Power Control.**
- **Advanced protections against high VSWR, overdrive, overcurrent and overtemperature.**
- **Ease of maintenance.**



**TX10KSS/60D41**

Plug-in transmitter, 10kW  
(composed of PJ10KPS-CA  
+ 2x PTX30DDS).



**TX20KSS/61D412**

Plug-in transmitter, 20kW  
(composed of PJ20KPS-CA  
+ 2x PTX30DDS).



**TX60KSS**

Plug-in transmitter, 60kW  
(composed of PJ60KPS-CA  
+ 2x PTX30DDS).



## TX10KSS/60D41

Parameters	U.M.	Value	Notes
<b>GENERAL</b>			
RF Output Power	kW	10,5	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	> 1	
Frequency programmability		By software, with 1, 10, 100 , 1000 kHz steps	
Nominal Frequency Deviation		±75 KHz (peak)	
Maximum Frequency Deviation		±150 KHz (peak)	
Class of Emission		180KF8E Direct to Channel	
Modulation Mode		Mono, Stereo, Multiplex, SCA, RDS, Aux	
Stereo transmissions		Acc. to ITU-R / Rec. 450 (Pilot tone)	
RF Output Impedance		50 Ω, Unbalanced	
RF Output Connector		1-5/8" EIA Flange	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Pre-emphasis Mode		0/50 (CCIR) μs, 75 (FCC) μs	
Asynchronous AM S/N Ratio		Typically >70dB	
Synchronous AM S/N Ratio		Typically > 55dB	
Harmonics suppression and Spurious		Typically <-85db	
Overall efficiency		Typically > 70%	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Analogue Input level {+75 KHz (peak) deviation }		-12,5 dBu - +12,5 dBu (adjustable)	
Digital Input level {+75 KHz (peak) deviation }		-20,0 dBFS - 0 dBFS (adjustable)	
<b>MONO OPERATION</b>			
S/N ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise	%	Typically <0,03	
Inter Modulation Distortion SMPTE	%	Typically <0,02	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance		600 Ω or 10 kΩ	
<b>MPX OPERATION</b>			
Composite S/N ratio	dB	Typically > 80	
Total Harmonic Distortion + Noise	%	Typically <0,05	
Inter Modulation Distortion	%	Typically <0,05	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance		10 kΩ	
<b>STEREO OPERATION</b>			
Stereo FM S/N Ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise (L or R)	%	Typically <0,02	
Inter Modulation Distortion SMPTE (L or R)	%	Typically <0,02	
Frequency response (L or R)	dB	Typically ±0,2	
Linear Cross Talk	dB	Typically > 50	
Non-Linear Cross Talk	dB	Typically > 50	
Stereo Separation (Sine Wave)	dB	Typically > 70	
Audio Input Impedance		600 Ω or 10 kΩ	
Digital Input Impedance		110 Ω	

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**TX60KSS**

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power	kW	65	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	± 1	
Driver power for rated output	W	100	
Nominal Frequency Deviation		±75 KHz (peak)	
Maximum Frequency Deviation		±150 KHz (peak)	
Class of Emission		180KF8E Direct to Channel	
Modulation Mode		Mono, Stereo, Multiplex	
Stereo transmissions		Ace to ITU-R / Ree 450 (Pilot tone)	
RF Output Impedance	Ω	50	
RF Output Connector		3-1/8" EIA Flange	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Pre-emphasis Mode		0/50 (CCIR) μs,75 (FCC) μs	
Asynchronous AM S/N Ratio	dB	Typically >70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically <85	
Overall efficiency	%	Typically > 72-74	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Analogue Input level {+75 KHz (peak) deviation }		-12,5 dBu - +12,5 dBu (adjustable)	
Digital Input level {+75 KHz (peak) deviation }		-20,0 dBFS - 0 dBFS (adjustable)	
<b>POWER REQUIREMENTS</b>			
AC supply voltage		400V ±10% AC Three-Phase 3F-N 230V ±10% AC Three-Phase 3F-N	
Active power consumption		From 29,1 kW to 28,3 kW From 58,3 kW to 56,7 kW From 90 kW to 92 kW	
AC power input	%	Typically > 72-74	
Power factor	dB	> 0,95	
Connector		Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions mm (WxHxD)		3425 x 1910 x 1150	
Cooling		Forced, with internal fan	
Acoustic Noise	dba	<75	
Weight	Kg	About 1150	
<b>MONO OPERATION</b>			
S/N ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise	%	Typically <0,03	
Inter Modulation Distortion SMPTE	%	Typically <0,02	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance		600 Ω or 10 kΩ	
<b>MPX OPERATION</b>			
Composite S/N ratio	dB	Typically > 80	
Total Harmonic Distortion + Noise	%	Typically <0,05	
Inter Modulation Distortion	%	Typically <0,05	
Frequency Response	dB	Typically ±0,2	
Audio Input Impedance	kΩ	10	
<b>STEREO OPERATION</b>			
Stereo FM S/N Ratio	dB	Typically > 83	
Total Harmonic Distortion + Noise (L or R)	%	Typically <0,02	
Inter Modulation Distortion SMPTE (L or R)	%	Typically <0,02	
Frequency response (L or R)	dB	Typically ±0,2	
Linear Cross Talk	dB	Typically > 50	
Non-linear Cross Talk	dB	Typically > 50	
Stereo Separation (Sine Wave)	dB	Typically > 70	
Audio Input Impedance		600 Ω or 10 kΩ	
Digital Input Impedance	Ω	110	

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ORDERING INFORMATION	
Model	Description
<b>TX03KSS</b>	Plug-in transmitter, 3kW (composed of PJ3KPS-CA + 2x PTX30DDS).
<b>TX04KSS/60D44</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + 2x PTX30DDS).
<b>TX05KSS</b>	Plug-in transmitter, 5kW (composed of PJ5KPS-CA + 2x PTX30DDS).
<b>TX06KSS/60D42</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + 2x PTX30DDS).
<b>TX08KSS/60D43</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + 2x PTX30DDS).
<b>TX10KSS/60D41</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + 2x PTX30DDS).
<b>TX12.5KSS/60D41</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + 2x PTX30DDS).
<b>TX20KSS/61D412</b>	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + 2x PTX100DDS).
<b>TX25KSS/60D451</b>	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + 2x PTX30DDS).
<b>TX32KSS/60D472</b>	Plug-in transmitter, 32kW (composed of 2x PJ16KPS-CA + 2x PTX30DDS).
<b>TX40KSS/61D414</b>	Plug-in transmitter, 40kW (composed of 4x PJ10KPS-CA + 2x PTX30DDS).
<b>TX50KSS</b>	Plug-in transmitter, 50kW (composed of 5x PJ10KPS-CA + 2x PTX30DDS).
<b>TX60KSS</b>	Plug-in transmitter, 60kW (composed of 6x PJ10KPS-CA + 2x PTX30DDS).
<b>TX03KSS</b>	Plug-in transmitter, 3kW (composed of PJ3KPS-CA + PTX30DDS).
<b>TX04KSS/60S44</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + PTX30DDS).
<b>TX05KSS</b>	Plug-in transmitter, 5kW (composed of PJ5KPS-CA + PTX30DDS).
<b>TX06KSS/60S42</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + PTX30DDS).
<b>TX08KSS/60S43</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + PTX30DDS).
<b>TX10KSS/60S41</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + PTX30DDS).
<b>TX12.5KSS/60S41</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + PTX30DDS).
<b>TX20KSS/61S412</b>	Plug-in transmitter, 20kW (composed of 2x PJ10KPS-CA + PTX100DDS).
<b>TX25KSS/60S451</b>	Plug-in transmitter, 25kW (composed of PJ20KPS-CA + PTX30DDS).
<b>TX32KSS/60S472</b>	Plug-in transmitter, 32kW (composed of 2x PJ16KPS-CA + PTX30DDS).
<b>TX40KSS/61S414</b>	Plug-in transmitter, 40kW (composed of 4x PJ10KPS-CA + PTX30DDS).
<b>TX50KSS</b>	Plug-in transmitter, 50kW (composed of 5x PJ10KPS-CA + PTX30DDS).
<b>TX60KSS</b>	Plug-in transmitter, 60kW (composed of 6x PJ10KPS-CA + PTX30DDS).

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# TX-KSS PLUG-IN NEXT GEN

MID/HIGH POWER HOT PLUG



from 4000W to 50000W

R.V.R. has opted to enhance the power supply feed within the Hot Plug-in Standard Series by developing the EPS (Extractable Power Supplies) features, employing a drawer system for hot-swappable power supplies, and incorporating an additional slot for N+1 PSU configuration.

In response to the growing demand for rapid maintenance, reduced downtime, and redundancy across various points in the transmitter, R.V.R. has decided to introduce a solution that allows for the integration of power supplies from different manufacturers. This flexibility accommodates client preferences, budgetary constraints, and operational requirements in specific Countries.

MODELS

TX04KSS

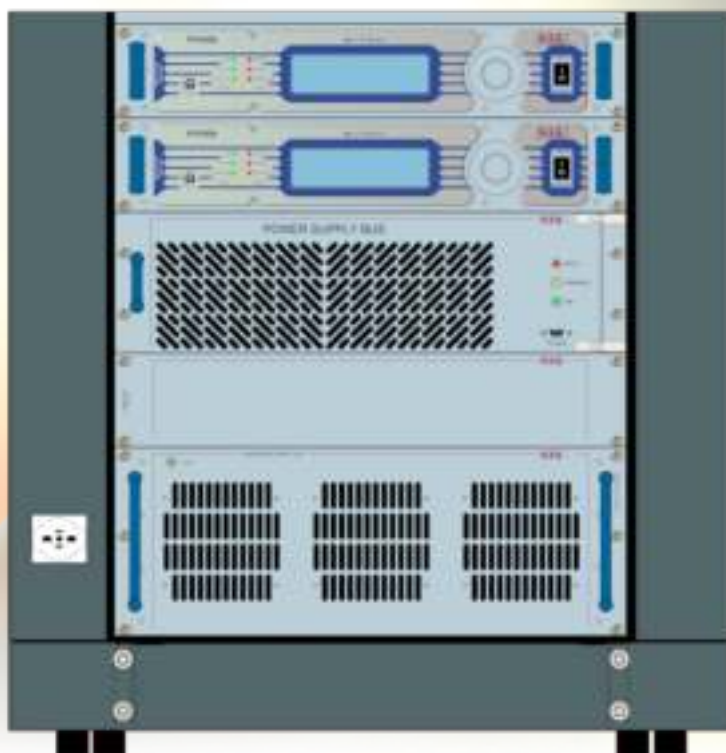
TX05KSS

TX06KSS

TX08KSS

TX10KSS

TX12.5KSS



Developed for the most demanding FM Radio Networks, this line of products has been conceived for all stations that needs to ensure broadcast continuity and simplify any maintenance operation. All hot pluggable transmitters exceed ETSI/CCIR/FCC standards on RF harmonics and spurious, performing high efficiency and ensuring the clients in investing in product with a high life span.

- Tunable over entire FM band (87.5 – 108 MHz), without tuning.
- Overall efficiency better than 71-73%.
- Hot-pluggable and broadband power amplifier modules.
- High redundancy guaranteed
- Each amplifier module provides Automatic Power Control.
- Each module has its own hot plug-in fans set.
- Suitable for mono & stereo broadcast operations.
- Protection against high VSWR, overdrive, overcurrent and overtemperature.
- Compliance to IEC safety standards.
- Compliance to ETSI – CCIR – FCC standards.
- Entire transmitter can be switched off through an emergency button.
- All measurement and working parameters are displayed on front panel.
- Remotely controllable by telemetry system.
- Design for 24/7 non-stop operation.
- The transmitter include an integrated system for automatic and manual switching between two exciters. In Automatic mode the changeover is activated when active power of exciter falls below 3dB.



**EPS**

Switching Power supply for RF module.

Very easy to replace, even when the transmitter is on air.

- Each power supply "PS" can be removed or plugged without turning off the transmitter.
- The transmitter is capable of generating an output power with ample margin thanks to oversized power supplies.
- By installing an additional PS, the transmitter will operate at full power in the event of a single PS failure, eliminating the need for derating.
- Each PS features an automatic magnetic switch preventing short circuits and ensuring uninterrupted signal broadcasting.
- The power stream generated by these PS are distributed in parallel to all RF modules; consequently if one power supply fails all RF modules maintain balanced operation.
- The transmitter's CCU oversee continuously the operational status of each individual power supply.
- In the event of a failure the "ECM" electronic control module will optimize the transmitter efficiency.
- In an empty slot an additional power supply can be turned on so in the event of a power supply failure there will be no reduction in power. It is a N+1 pws system . Only from 4 to 10kW(option).





**TX06KSS/60D42/EPS**

Plug-in transmitter, 6kW  
(composed of PJ6KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



**TX08KSS/60D43/EPS**

Plug-in transmitter, 8kW  
(composed of PJ8KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



**TX10KSS/60D41/EPS**

Plug-in transmitter, 10kW  
(composed of PJ10KPS-CA +  
2x PTX30DDS) with EPS "Extractable  
Power Supplies.



**TX12.5KSS/60D41/EPS**

Plug-in transmitter, 12.5kW  
(composed of PJ12.5KPS-CA +  
2x PTX30DDS) with EPS "Extractable Power  
Supplies.



## TX06KSS/60D42/EPS

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		6kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		Typically >70dB	
Synchronous AM S/N Ratio		Typically > 55dB	
Harmonics suppression and Spurious		Typically <85db	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Environmental working conditions		-10 °C to + 50 °C / 95% relative Humidity non condensing	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 8350W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 260 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

## TX08KSS/60D43/EPS

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		8kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		Typically >70dB	
Synchronous AM S/N Ratio		Typically > 55dB	
Harmonics suppression and Spurious		Typically <85db	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Environmental working conditions		-10 °C to + 50 °C / 95% relative Humidity non condensing	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 11.100W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 290 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

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## TX10KSS/60D41/EPS

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		10kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		Typically >70dB	
Synchronous AM S/N Ratio		Typically > 55dB	
Harmonics suppression and Spurious		Typically <85db	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Environmental working conditions		-10 °C to + 50 °C / 95% relative Humidity non condensing	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 14.100W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 360 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

## TX12.5KSS/60D41/EPS

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power		12.5kW + 10%	
Frequency Range	MHz	87,5 – 108	
Driver power for rated output	W	30	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		Typically >70dB	
Synchronous AM S/N Ratio		Typically > 55dB	
Harmonics suppression and Spurious		Typically <85db	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Environmental working conditions		-10 °C to + 50 °C / 95% relative Humidity non condensing	
<b>POWER REQUIREMENTS</b>			
AC Power Input	AC Supply Voltage	400V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Three-Phase 3F+N	
		230V ±10% AC Mono-Phase 50/60 Hz	
	Active Power Consumption	about 17.200W	
	Power factor	> 0.95	
	Overall Efficiency	71/73 %	
	Connector	Terminal Block Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical Dimensions	L x H x W	40u 685 mm x 1935 mm x 1000 mm	
		32u 685 mm x 1620 mm x 1000 mm	
Weight		about 380 kg	
Cooling		Forced, with internal fan	
Acoustic Noise		< 75 dBA	
<b>OUTPUTS</b>			
RF Output		50 Ohm (1+5/8" EIA flange type)	

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ORDERING INFORMATION	
Model	Description
<b>TX04KSS/60D44/EPS</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX06KSS/60D42/EPS</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX08KSS/60D43/EPS</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX10KSS/60D41/EPS</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX12.5KSS/60D41/EPS</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + 2x PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX04KSS/60S44/EPS</b>	Plug-in transmitter, 4kW (composed of PJ4KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX06KSS/60S42/EPS</b>	Plug-in transmitter, 6kW (composed of PJ6KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX08KSS/60S43/EPS</b>	Plug-in transmitter, 8kW (composed of PJ8KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX10KSS/60S41/EPS</b>	Plug-in transmitter, 10kW (composed of PJ10KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".
<b>TX12.5KSS/60S41/EPS</b>	Plug-in transmitter, 12.5kW (composed of PJ12.5KPS-CA + PTX30DDS) with EPS "Extractable Power Supplies".

OPTION	
<b>/N+1 PSL</b>	An additional power supply can be turned on so in the event of a power supply failure there will be no reduction in power.

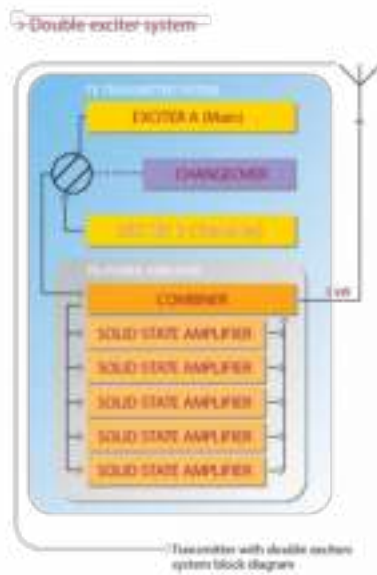
All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.

# REDUNDANT TRANSMITTERS SYSTEM

Configuration examples for redundant transmission systems.

## Double exciter

**This system is composed of 2 exciters A and B, in which one is ON and the other is OFF. In case the unit that is on fails, it will be replaced by the second unit.**

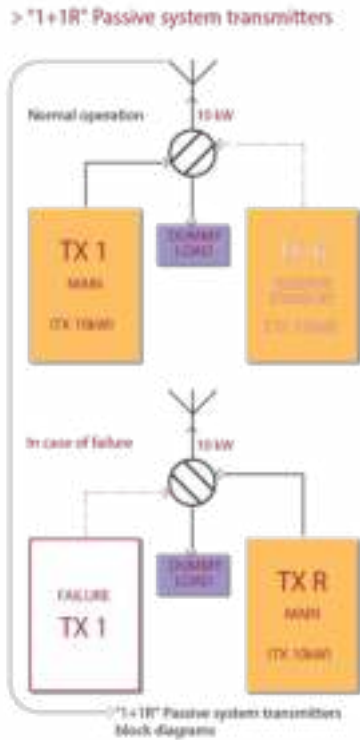


This system is composed of 2 exciters A and B, in which one is ON and the other is OFF. In case the unit that is on fails, it will be replaced by the second unit.  
 This system is used to drive combined MOSFET transmitters with a high intrinsic resistance. The major benefit of this system is to guarantee high reliability at a minimum cost, being the coaxial relay an economic device thanks to the low power handled.



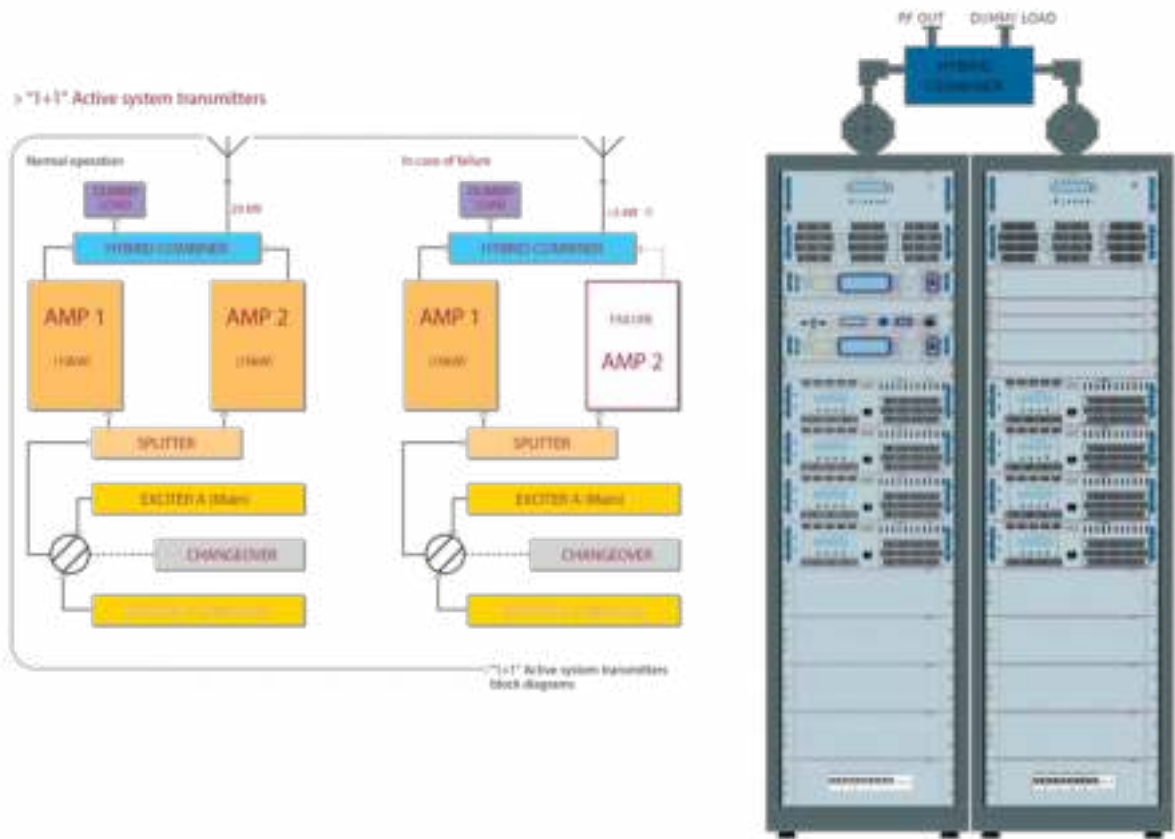
# "1+1R" Passive system transmitters

This system is composed of 2 transmitters, A and B, in which 1 is ON and is connected to the antenna and the second is OFF and is connected to the dummy load. In case the operating transmitter fails, it is immediately replaced with the second unit.



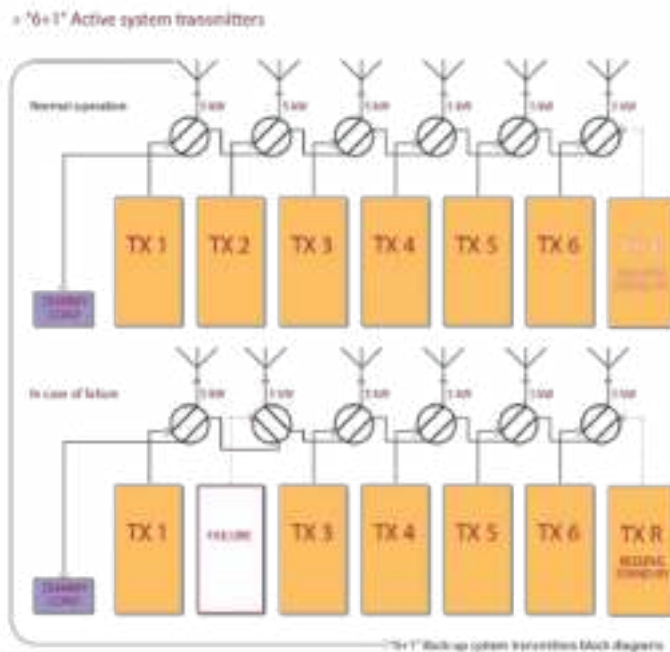
# "1+1R" Active system transmitters

This system is composed of 2 transmitters, A and B, in which 1 is ON and is connected to the antenna and the second is OFF and is connected to the dummy load. In case the operating transmitter fails, it is immediately replaced with the second unit.



# "6+1R" Activesystem transmitters

This system is composed of "N" transmitters connected to the antenna and 1 transmitter used as back-up unit that is connected to the dummy load. In case one of the "N" transmitters fails it is immediately replaced with the back-up unit and the faulty unit is switched to the dummy load.





# FM AMPLIFIERS

BRODBAND AIR COOLED AMPLIFIERS

- **Ideal as a complement for stations of medium-high power.**
- **Globally recognized as the most sold professional amplifiers.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **10% - 100% Output Power continuously adjustable.**
- **From 1000W to 60.000W.**

# PJ-LIGHT PJ-LCD SERIES

BROADBAND AIR COOLED AMPLIFIERS

from 1000W to 3500W

MODELS

PJ1000LIGHT PJ2500LCD  
PJ3500LCD



- **High-gain amplifier with very low input drive power requirement.**
- **10% - 100% Output Power continuously adjustable.**
- **APC Automatic Power Control ensuring reliable operation.**
- **Enhanced energy saving power supply.**
- **Exceed 70% efficiency across the bandwidth.**
- **Remotable from all digital RVR telemetry systems.**
- **Full compliance with EC, FCC and CCIR standards.**
- **Ease of access and simplified maintenance.**

ORDERING INFORMATION

Model	Description
PJ1000LIGHT	1000W High Redundancy Compact Stereo Amplifier.
PJ2500LCD	2500W Compact Stereo Amplifier.
PJ3500LCD	3500W Compact Stereo Amplifier.

OPTION

/CNT7/8-150	7/8 output RF connector.
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**PJ1000LIGHT**

1000W High Redundancy Compact Amplifier.



**PJ2500LCD**

2500W Compact Amplifier.



**PJ3500LCD**

3500W Compact Amplifier.



**PJ1000LIGHT**

Parameters	U.M.	Value	Notes	
<b>GENERALS</b>				
Frequency range	MHz	87,5 ÷ 108		
Rated output power	W	1000		
Spurious & harmonic suppression	dBc	<75 (80 typical)	Meets or exceeds all FCC and CCIR rules	
Working temperature	°C	-5 to + 50		
Working humidity	%	95	Without condensing	
Working altitude	m	Up to 3000	With adequate air evacuation system in site	
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	VAC	230 ±15%	
	AC Apparent Power Consumption	VA	1650	Monophase
	Active Power Consumption	W	1630	
	Power Factor		0,998	
	Overall Efficiency	%	Typical 70	
	Connector		Terminal Block	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	132 / 5 1/4 3HE	
	Overall depth	mm / inch	550 / 21,65	
	Chassis depth	mm / inch	500 / 19,69	
Weight	kg	About 25		
Cooling		Forced, with internal fan		
Acoustic noise	dBA	< 75	Leq 3 min @ 1 m	
<b>AUDIO INPUTS</b>				
RF Input	Connector		N type	
	Impedance	Ohm	50	
Driver power for rated output	W	11		
Max input power before protection	W	25		
<b>OUTPUTS</b>				
RF Output	Connector		7/16" EIA	
	Impedance	Ohm	50	
RF Monitor	Connector		BNC	
	Impedance	Ohm	50	
	Output Level	dBc	Approx. -60	
<b>FUSES</b>				
On mains		2 External fuse F 25 T - 10x38 mm		
On services		1 External F3,15 A 2x20 mm		
On PA Supply		3 External F 16 A 10x38mm		
On aux VDE socket		X		

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Parameters	U.M.	PJ2500LCD	PJ3500LCD	Notes
<b>GENERALS</b>				
Frequency range	MHz	87,5 ÷ 108		
Rated output power	W	2500	3500	
Modulation type	dBc	<80 (82 typical)	<82 (85 typical)	Meets or exceeds all FCC and CCIR rules
Working temperature	°C	-5 to + 50		
Working humidity	%	95		Without condensing
Working altitude	m	Up to 3000	Up to 2000	With adequate air evacuation system in site
<b>POWER REQUIREMENTS</b>				
AC Supply Voltage	VAC	230 ±15%	230 +10% -15%   400 +10% -15%	Monophase   Threephases Y
AC Apparent Power Consumption	VA	3578	4996	
AC Power input	Active Power Consumption	W	3571	4987
	Power Factor	0,998		
	Overall Efficiency	%		Typical 70
	Connector			Terminal Block
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	132 / 3 1/2 3HE	
	Overall depth	mm	670	
	Chassis depth	mm	650	
	Weight	kg	About 31	
	Cooling			Forced, with internal fan
	Acoustic noise	dBa	< 75	Leq 3 min @ 1 m
<b>AUDIO INPUTS</b>				
RF Input	Connector			N type
	Impedance	Ohm	50	
	Driver power for rated output	W	30	
	Max input power before protection	W	35	
<b>OUTPUTS</b>				
RF Output	Connector			7/8" EIA
	Impedance	Ohm	50	
RF Monitor	Connector			BNC
	Impedance	Ohm	50	
	Output Level	dBc	Approx. -60	
<b>FUSES</b>				
On mains		3 External fuse F 25 T - 10x38 mm	3 External fuse F 10 T - 6x30 mm	
On services		1 External F 3,15 A 5x20 mm	X	
On PA Supply		4 Internal F 25 A 10x38mm	4 Internal F 32 A 10x38mm	
On aux VDE socket		X	X	

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# PJ-KPS-CA PLUG-IN SERIES

MID/HIGH POWER HOT PLUG

from 3000W to 60.000W

## MODELS

PJ03KPS-CA

PJ04KPS-CA

PJ05KPS-CA

PJ06KPS-CA

PJ08KPS-CA

PJ10KPS-CA

PJ12.5KPS-CA

PJ20KPS-CA

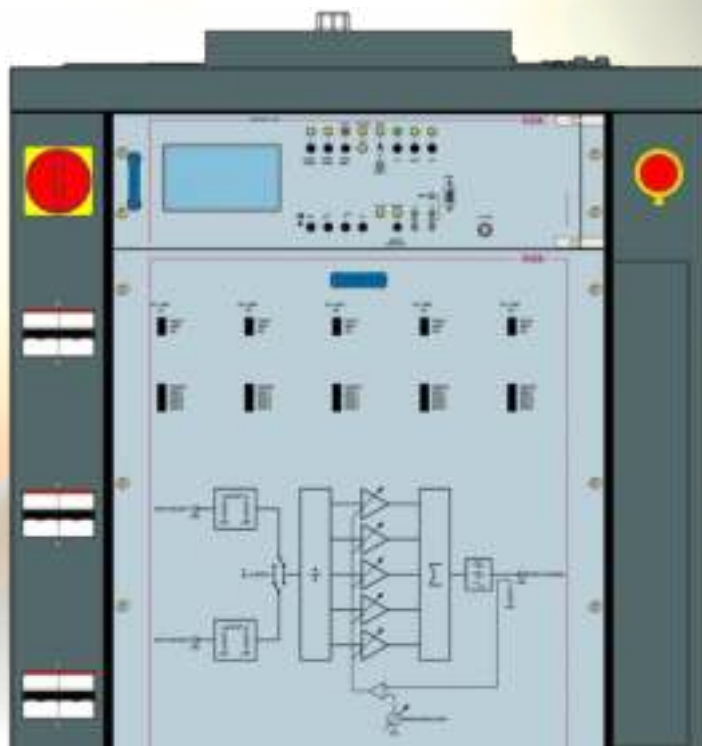
PJ25KPS-CA

PJ32KPS-CA

PJ40KPS-CA

PJ50KPS-CA

PJ60KPS-CA



- **The most reliable FM broadcasting solution on the market designed for 24/7 non-stop operation.**
- **Capable of Analog and Digital transmission depending on the configuration.**
- **Reduced failure rate thanks to hot plug-in connectors replacing most of the classical wiring.**
- **Over-dimensioned amplifiers modules.**
- **In case of fail, the total power output will not go below -3dB.**
- **Independent and hot-swap amplifier's modules.**
- **Intelligent stand alone hot-swap fan arrays.**
- **Overall efficiency up to 76% depending on the configuration.**
- **N+1 Configuration available for 24/7 business continuity.**
- **Built-in exciter's automatic or manual changeover.**
- **Tunable over the entire FM band 87.5 - 108 MHz, without tuning. Other bands on request.**
- **Remote controls: WEB, SNMP2, GSM, Serial and Complete FM monitoring (option).**
- **Exceeds ETSI/CCIR/FCC requirements regarding RF harmonics and RF spurious.**
- **Compliance to IEC 215 safety standards.**
- **Single phase or three phase power configuration.**

#### **Amplifiers:**

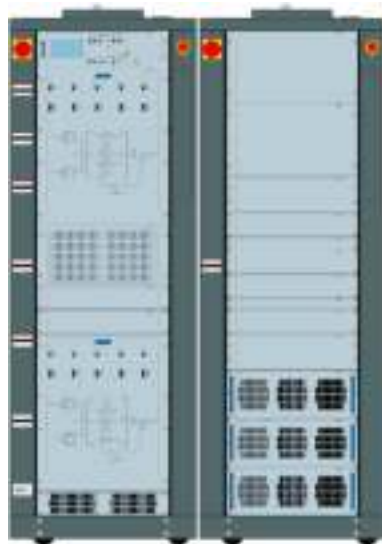
- **Hot Plug-in modules available in 2.300W or 2.500W depending on system's configuration**
- **Independent power supply per each amplifier's module.**
- **Independent fan array per each amplifier's module.**
- **Automatic Power Control.**
- **Advanced protections against high VSWR, overdrive, overcurrent and overtemperature.**





**PJ10KPS-CA**

10.000W PLUG-IN System.



**PJ20KPS-CA**

20.000W PLUG-IN system.



**PJ60KPS-CA**

60.000W PLUG-IN System.



### PJ10KPS-CA

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power	kW	10,5	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	> 1	
Class of Emission		180KF8E Direct to Channel	
Stereo transmissions		Acc. to ITU-R / Rec. 450 (Pilot tone)	
RF Output Impedance		50 Ω, Unbalanced	
RF Output Connector		1-5/8" EIA Flange (3-1/8" EIA Flange on request)	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio	dB	Typically > 70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically < 85	
Overall efficiency	%	Typically > 70	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	

### PJ60KPS-CA

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
RF Output Power	kW	65	
Frequency Range	MHz	87,5 – 108	
Frequency Stability	ppm	± 1	
Class of Emission		180KF8E Direct to Channel	
Stereo transmissions		Acc to ITU-R / Rec 450 (Pilot tone)	
RF Output Impedance	Ω	50	
RF Output Connector		4-7/2" EIA Flange (4-1/2" EIA Flange on request)	
VSWR		1.4:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio	dB	Typically > 70	
Synchronous AM S/N Ratio	dB	Typically > 55	
Harmonics suppression and Spurious	dB	Typically < 85	
Overall efficiency	%	Typically > 72-74	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	

### ORDERING INFORMATION

Model	Description
<b>PJ03KPS-CA</b>	<b>3.000W</b> PLUG-IN System.
<b>PJ04KPS-CA</b>	<b>4000W</b> PLUG-IN System.
<b>PJ05KPS-CA</b>	<b>5.000W</b> PLUG-IN System.
<b>PJ06KPS-CA</b>	<b>6.000W</b> PLUG-IN System.
<b>PJ08KPS-CA</b>	<b>8.000W</b> PLUG-IN System.
<b>PJ10KPS-CA</b>	<b>10.000W</b> PLUG-IN System.
<b>PJ12.5KPS-CA</b>	<b>12.500W</b> PLUG-IN System.
<b>PJ20KPS-CA</b>	<b>20.000W</b> PLUG-IN System.
<b>PJ25KPS-CA</b>	<b>25.000W</b> PLUG-IN System.
<b>PJ32KPS-CA</b>	<b>32.000W</b> PLUG-IN System.
<b>PJ40KPS-CA</b>	<b>40.000W</b> PLUG-IN System.
<b>PJ50KPS-CA</b>	<b>50.000W</b> PLUG-IN System.
<b>PJ60KPS-CA</b>	<b>60.000W</b> PLUG-IN System.

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# RADIO LINKS

PTRL - RXRLXRL

**Line of Radio Links covering the frequency bands from 200 MHz to 2.5 GHz with an adjustable power from 2 to 20W and various optional accessories (specify the working frequency when ordering).**

# PTRL - RXRL

## RADIO LINKS SYSTEM

**Line of Radio Links covering the frequency bands from 200 ÷ 400 MHz and from 800 ÷ 960 MHz with an adjustable power from 0 to 20W and various optional accessories.**

### MODELS

PTRL-LCD      RXRL-LCD



- **STL robust and reliable, simple to use.**
- **Standard working frequency bands that include, depending on the model, the VHF-UHF (200 ÷ 400, 800 ÷ 960 MHz) bands.**
- **Optional stereo coder and decoder.**
- **Adjustable output power 2 ÷ 20W on PTRL-LCD transmission.**
- **Agile frequency on 20MHz, selectable a step of 5kHz.**
- **Excellent transmission quality with low distortion and intermodulation.**
- **Full range power supply 80-260 VAC.**
- **Connector for external 24 VDC backup.**
- **APC automatic power control.**
- **Reduced maintenance.**

ORDERING INFORMATION	
Model	Description
<b>PTRL-LCD</b>	<b>20W</b> Radio Link TX 940÷960 MHz in step of 20 MHz factory limited. Please specify the operating frequency at the order.
<b>RXRL-LCD</b>	Radio Link RX 940÷960 MHz in step of 20 MHz factory limited. Please specify the operating frequency at the order.

OPTION	
Code	Description
<b>/S-PTRLLCD</b>	Stereo coder card.
<b>/05-RXRLLCD</b>	Stereo decoder card.



**PTRL-LCD**

20W Radio Link TX 940÷960 MHz in step of 20 MHz factory limited.



**RXRL-LCD**

Radio Link RX 940÷960 MHz in step of 20 MHz factory limited.



**PTRL-LCD**

Parameters		U.M.	Value	Notes
<b>GENERALS</b>				
Frequency range	Work bandwidth is 20MHz	MHz	940 ÷ 960	
Rated output power		W	20	Continuously adjustable from 10 to 100%
Modulation type			Direct carrier frequency	
Operational mode			Mono, Multiplex	
Ambient working temperature		°C	-10 to +50	Without condensing
Frequency setting		kHz	10	Steps
Frequency stability	Temperature range from -10°C to 50°C	ppm	±1	
Modulation capability	Referred @ 0dBu for 75kHz	kHz	130	Meets or exceeds all FCC and CCIR rules
Pre-emphasis		µS	0, 50 (CCIR), 75 (FCC)	Selectable
Spurious & harmonic suppression		dBc	<73	
Asynchronous AM S/N ratio	Referred to 100% AM, with no de-emphasis	dB	≥60	
Synchronous AM S/N ratio	Referred to 100% AM, FM deviation 75 kHz	dB	≥50	
<b>POWER REQUIREMENTS</b>				
	by 400Hz sine, without de-emphasis			
AC Power input	AC Supply Voltage	VAC	80 ±260	Full range
	AC Apparent Power Consumption	VA	120	
	Active Power Consumption	W	70	
	Power Factor		0,5	
	Overall Efficiency	%	Typical 50	
DC Power input	Connector		VDE IEC Standard	
	DC Supply Voltage	VDC	24	
	DC Current	ADC	5	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	88 / 3 1/2	2HE
	Overall depth	mm	394	
	Chassis depth	mm	372	
Weight		kg	About 7	
Cooling			Forced, with internal fan	
Acoustic noise		dBA	< 58	
<b>AUDIO INPUTS</b>				
Left / Mono	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level / Adjust	dBu	-13 to +13	Continuously adjustable
Right	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level	dBu	-13 to +13	Continuously adjustable
MPX	Connector		BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k or 50	
	Input Level / Adjust	dBu	-13 to +13	Continuously adjustable
SCA/RDS	Connector		2 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k	
	Input Level / Adjust	dBu	-8 to +13	For 7,5 KHz FM, adjustable
<b>OUTPUTS</b>				
RF Output	Connector		N type	
	Impedance	Ohm	50	
RF Monitor	Connector		BNC	
	Impedance	Ohm	50	
	Output Level	dB	Approx. -30	
Pilot output	Connector		X	
	Load Impedance	Ohm	X	
	Output Level	Vpp	X	Sinusoidal
<b>FUSES</b>				
On mains			1 External fuse F 3,15 T - 5x20 mm	
On services			X	
On PA Supply			X	
On driver supply			X	

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### RXRL-LCD

Parameters		U.M.	Value	Notes
<b>GENERALS</b>				
Frequency range	Work bandwidth is 20MHz	MHz	940 ÷ 960	
Sensitivity RF	@ 25dB S/N Mono	W	-85	Continuously adjustable from 10 to 100%
Intermediate frequency			70 , 10,7 , 0,35	
Operational mode			Mono, Multiplex	
Ambient working temperature		°C	-10 to +50	Without condensing
Frequency setting		kHz	10	Steps
Frequency stability	Temperature range from -10°C to 50°C	ppm	±1	
De-emphasis		µS	0 , 50 , 75	Meets or exceeds all FCC and CCIR rules
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	VAC	80 ÷260	Full range
	AC Apparent Power Consumption	VA	25	
	Active Power Consumption	W	20	
	Power Factor		0,8	
	Overall Efficiency	%	Typical 50	
DC Power input	Connector		VDE IEC Standard	
	DC Supply Voltage	VDC	24	
	DC Current	ADC	< 2 A	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	Front panel width	mm / inch	483 / 19	EIA rack
	Front panel height	mm / inch	88 / 3 1/2	2HE
	Overall depth	mm	394	
	Chassis depth	mm	372	
Weight		kg	About 5	
Cooling			Convection cooling	
Acoustic noise		dBA	X	
<b>AUDIO INPUTS</b>				
RF Input	Connector		N type	
	Impedance	Ohm	50	
<b>OUTPUTS</b>				
Left / Mono	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	100	
	Output Level /Adjust @ 75KHz dev	dBu	-10 to +14	Continuously adjustable
Right	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	100	
	Output Level /Adjust @ 75KHz dev	dBu	-10 to +14	Continuously adjustable
MPX	Connector		2 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	100	
	Output Level /Adjust @ 75KHz dev	dBu	-20 to +13	For 75 KHz FM, adjustable
SCA	Connector		2 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	100	
	Output Level /Adjust @ 75KHz dev	dB	-20 to +7	Value to check for the 7.5KHz deviation
<b>FUSES</b>				
On mains			1 External fuse F 3,15 T - 5x20 mm	
On services			X	
On PA Supply			X	
On driver supply			X	

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# STATIONS ACCESSORIES

Implementing or making a brand new FM Station nowadays, especially in remote areas can result difficult when it comes to integrate accessories and products from many suppliers. For this reason, R.V.R. designs and manufactures all main accessories needed in a FM Tower, letting its customers having one unique provider, a simplified integration, installation and support.

Discover here below the wide range of products developed to increase the Station's redundancy, performances, lowering your on-site maintenance time.

## CHANGEOVER UNITS SYSTEM

SCM

## CHANGEOVER ACCESSORIES

AUD - SCM - RDS

## RDS & AUDIO EQUIPMENTS

AUD - RDS

## GPS RECEIVER

GPSRXNV

## DUMMY LOADS

EDL-FM

## TELEMETRY SYSTEM

TLK - /TLW-E

# CHANGEOVER UNITS SYSTEM

SCM

MODELS

SCMLCD1+1 SCML1+1SL SCMLCDN+1

SCMMAN1+1/158 SCM6-1



To ensure the continuity of transmission of the transmitting equipment, RVR produces various models of changeover units for the control of redundant configurations in 1 + 1 and N + 1 up to 6 + 1.

By integrating coaxial relays, distributors and Audio, MPX and RDS routers, it is thus possible to manually or automatically switch the reserve transmission in case of failure of one of the main ones. Depending on the architecture of the transmitting site, dedicated models are available.

ORDERING INFORMATION	
Model	Description
<b>SCMLCD1+1</b>	Telemetry automatic changeover unit.
OPTION	
SCMLCD1+1/T0	Automatic changeover "1+1" unit and telemetry unit with Nr 1 I/O base card on board.
SCMLCD1+1/T1	Automatic changeover "1+1" unit and telemetry unit with Nr 1 I/O additional card on board.
SCMLCD1+1/T2	Automatic changeover "1+1" unit and telemetry unit with Nr 2 I/O additional cards on board.
SCMLCD1+1/T3	Automatic changeover "1+1" unit and telemetry unit with Nr 3 I/O additional cards on board.

ORDERING INFORMATION	
Model	Description
<b>SCML1+1SL</b>	Compact exchange unit for 1 + 1 systems with coaxial relays of any size.
OPTION	
SCML1+1SL/V1	Automatic Changeover "1+1" unit with 4 ways external relay. Power: min 150W max 1kW. Without Telemetry.
SCML1+1SL/V2	Automatic Changeover "1+1" unit with 3 ways internal relay. Power: min 0W max 150W. Without Telemetry.
SCML1+1SL/V3	Automatic Changeover "1+1" unit with 4 ways external relay. Power: from 1kW up. Without Telemetry.
SCML1+1SL/V4	Automatic Changeover "1+1" unit with customized relay. Without Telemetry.

ORDERING INFORMATION	
Model	Description
<b>SCMMAN1+1/158</b>	Manual changeover function across main and spare transmitter by coaxial relay control panel.

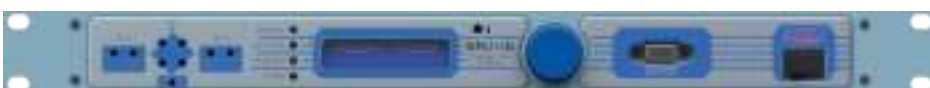
ORDERING INFORMATION	
Model	Description
<b>SCMLCDN+1</b>	RVR changeover system is equipped with an on-board telemetry unit so that it guarantee utmost continuous service.
OPTION	
SCMLCDN+1/T0	Automatic Changeover "N+1" and telemetry unit with No. 2 I/O base cards on board.
SCMLCDN+1/T1	Automatic Changeover "N+1" and telemetry unit with No. 3 I/O base cards on board.
SCMLCDN+1/T2	Automatic Changeover "N+1" and telemetry unit with No. 4 I/O base cards on board.

ORDERING INFORMATION	
Model	Description
<b>SCM6-1</b>	Automatic Changeover "N+1", up to 6 transmitters, with integrated telemetry.

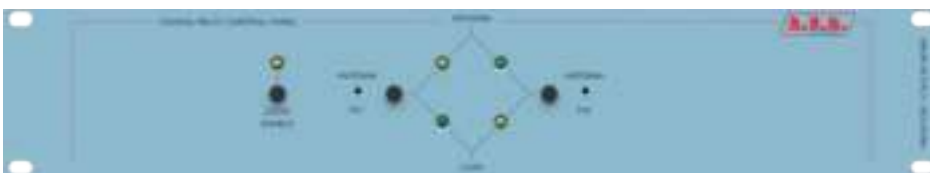




**SCMLCD1+1**  
Changeover Units System.



**SCML1+1SL**  
Changeover Units System.



**SCMMAN1+1/158**  
Changeover Units System.



**SCMLCDN+1**  
Changeover Units System.



**SCM6-1**  
Changeover Units System.



### SCMLCD1+1

Parameters		Value	Notes	
<b>GENERALS</b>				
Integrated coax-relè	Only / V2	Yes		
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing	
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply voltage	115 - 125 - 230 - 250 VAC ±15%		
	AC Apparent power consumption	W		
	Connector	VDE IEC Standard		
DC Power input	DC Supply voltage	24 VDC		
	DC Current	A		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483	EIA rack
		mm / inch	88 / 3 1/2	2HE
Weight		kg	About 4	
Cooling			Convection cooling	
Acoustic noise		dBA	0	
<b>AUDIO INPUTS</b>				
Analog		8 ÷ 32	Analog inputs depending by expansion card number.	
Digital / Analog		16 ÷ 64	Digital inputs depending by expansion card number.	
<b>OUTPUTS</b>				
Relay		8 ÷ 32	Analog inputs depending by expansion card number.	
<b>FUSES</b>				
On mains		1 External fuse 4 A F - 5X20 mm		
On services		X		
On PA Supply		X		
On driver supply		X		

### SCML1+1SL

Parameters		Value	Notes	
<b>GENERALS</b>				
Integrated coax-relè	only / V2	Yes		
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing	
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	115 - 125 - 230 - 250 VAC ±15%		
	AC Apparent Power Consumption	W		
	Connector	VDE IEC Standard		
DC Power input	DC Supply Voltage	24 VDC		
	DC Current	A		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	44 / 3 1/2	1HE
Weight		kg	About 0,3	
Cooling			Convection cooling	
Acoustic noise		dBA	0	
<b>AUDIO INPUTS</b>				
Analog		Specific RVR connectors		
Digital / Analog		Specific RVR connectors		
<b>OUTPUTS</b>				
Relay		Specific RVR connectors		
<b>INTERFACES</b>				
User interface		LCD - 2 x 16 with Encoder		
Signalling LEDs / Synoptical		Yes		
I2C		Yes		
TC/TS		Yes		
<b>FUSES</b>				
On mains		1 External fuse 1,6 A T - 5X20 mm		
On services		X		
On PA Supply		X		
On driver supply		X		

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### SCMMAN1+1/158

Parameters			Value	Notes
<b>GENERALS</b>				
Ambient working temperature			-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage		115 - 230 VAC ±15%	
	AC Apparent Power Consumption	W	2	
	Connector		Terminal Block (L-N-PE)	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483	EIA rack
		mm / inch	88 / 3 1/2	2HE
Weight		kg	About 0,3	
Cooling			Convection cooling	
Acoustic noise		dBa	0	
<b>INTERFACES</b>				
Signalling LEDs / Synoptical	LOCAL	mm	Yellow 5	
	TX1 to ANT	mm	2 x Green 5	
	TX2 to ANT	mm	2 x Yellow 5	
Push button	LOCAL ENABLE		Used for enabling change with push button	
	TX1 to ANT		Used for change Relay in a POS1	
	TX2 to ANT		Used for change Relay in a POS2	
<b>AUDIO INPUTS</b>				
Digital			Command Switch relay	Terminal Block
<b>OUTPUTS</b>				
Digital			Position Switch relay	Terminal Block
Digital			Out of Position Relay	Terminal Block
<b>FUSES</b>				
On mains			1 Fuse 125mA - 5X20 mm	
On services			X	
On PA Supply			X	
On driver supply			X	

### SCMLCDN+1

Parameters			Value	Notes
<b>GENERALS</b>				
Integrated coax-relè	Only / V2		Yes	
Ambient working temperature			-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply voltage		115 - 125 - 230 - 250 VAC ±15%	
	AC Apparent power consumption	W		
	Connector		VDE IEC Standard	
DC Power input	DC Supply voltage		24 VDC	
	DC Current		A	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483	EIA rack
		mm / inch	88 / 3 1/2	2HE
Weight		kg	About 4	
Cooling			Convection cooling	
Acoustic noise		dBa	0	
<b>AUDIO INPUTS</b>				
Analog			8 ÷ 32	Analog inputs depending by expansion card number
Digital / Analog			16 ÷ 64	Digital inputs depending by expansion card number
<b>OUTPUTS</b>				
Relay			8 ÷ 32	Analog inputs depending by expansion card number
<b>INTERFACES</b>				
User interface			Graphical LCD - 128 x 64 with Encoder	
Signalling LEDs / synoptical			Yes	
I2C			Yes	
RS232			Yes	
<b>FUSES</b>				
On mains			1 External fuse 4 A F - 5X20 mm	
On services			X	
On PA Supply			X	
On driver supply			X	

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**SCM6/1**

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative Humidity non condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply voltage	115 - 125 - 230 - 250 VAC ±15%	
	AC Apparent power consumption	W 50	
	Connector	VDE IEC Standard	
DC Power input	DC Supply voltage	24 VDC	
	DC Current	<2 a	
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483
		mm / inch	176 / 3 1/2
Weight	kg	About 6,5	EIA rack 4HE
Cooling		Forced with internal fans	
Acoustic noise	dBa	<58	
<b>AUDIO INPUTS</b>			
Digital			
<b>OUTPUTS</b>			
Relay		Specific RVR connectors	
<b>INTERFACES</b>			
User interface		Graphical LCD - 240 x 128 with Encoder	
Signalling LEDs / synoptical		Yes	
TC/TS		Yes	
<b>FUSES</b>			
On mains		1 External fuse 4 A - 5X20 mm	
On services		X	
On PA Supply		X	
On driver supply		X	

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# CHANGEOVER ACCESSORIES

AUD - SCM - RDS

MODELS

AUD2P1  
AUD6/1

AUD2MP1  
AES6/1

SCM-AUD  
RDS6/1





**To ensure the continuity of transmission of the transmitting equipment, RVR produces various models of changeover units for the control of redundant configurations in 1 + 1 and N + 1 up to 6 + 1.**

**By integrating coaxial relays, distributors and Audio, MPX and RDS routers, it is thus possible to manually or automatically switch the reserve transmission in case of failure of one of the main ones. Depending on the architecture of the transmitting site, dedicated models are available.**

ORDERING INFORMATION	
Model	Description
<b>AUD2P1</b>	The audio splitter system allows you to split the audio signal in input and redistribute it on multiple outputs.
<b>AUD2MP1</b>	The audio splitter system allows you to split the audio signal in input and redistribute it on multiple outputs.
OPTION	
<b>AUD2MP1/V1</b>	2-Way passive audio distribution system for MPX/DIGITAL/L&R signals.
<b>AUD2MP1/V2</b>	2-Way passive audio distribution system for MPX+RDS/DIGITAL/L&R signals.
<b>AUD2MP1/V3</b>	2-Way passive audio distribution system for MPX+RDS+SCA1/DIGITAL/L&R signals.
<b>AUD2MP1/V4</b>	2-Way passive audio distribution system for MPX+RDS+SCA1-2/DIGITAL/L&R signals.

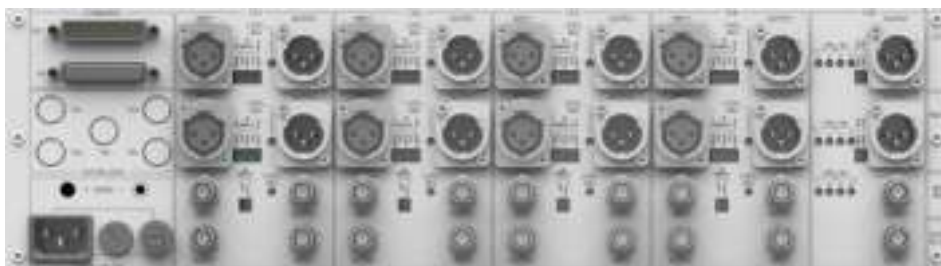
ORDERING INFORMATION	
Model	Description
<b>SCM-AUD</b>	Passive analog audio signal switch unit for SCMLCDN+1 changeover.
<b>SCM-AES/EBU</b>	Passive AES/EBU audio signal switch unit for SCMLCDN+1 changeover.

ORDERING INFORMATION	
Model	Description
<b>AUD6/1</b>	Passive analog audio signal switch unit for SCM6/1 changeover.
<b>AES6/1</b>	Passive AES/EBU audio signal switch unit for SCM6/1 changeover.
<b>RDS6/1</b>	Passive MPX, RDS, Pilot signals switch unit for SCM6/1 changeover.



**AUD2MP1**

Accessory - Audio Distributor System.



**SCM-AUD**

Accessory for SCMLCDN+1.



**SCM-AES/EBU**

Accessory for SCMLCDN+1.



**AUD6/1**

Accessory for SCM6/1.



**AES6/1**

Accessory for SCM6/1.



**RDS6/1**

Accessory for SCM6/1.



#### SCM-AUD

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply Voltage	80 - 260 VAC	Full Range Monophase
	Active Power Consumption	5W	
	Connector	VDE IEC Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483 / 19
		mm / inch	44 / 3 1/2
Weight		kg	About 1,4
Cooling			Convection cooling
Acoustic noise		dBA	0
<b>AUDIO INPUTS</b>			
L&R (from 1 to 4)	Connector		XLR female Balanced
	Passthrough Gain		±7dB adjustable
	Impedance		10K-600-2K Ω selectable
	Maximum input level	dBu	20
MPX & PILOT	Connector		BNC Unbalanced
	Passthrough Gain		±7dB adjustable
	Impedance		50 - 10K Ω selectable
	Maximum input level	dBu	14
<b>OUTPUTS</b>			
L&R (from 1 to 4) L&R Reserve	Connector		XLR male Balanced
	Maximum Level	dBu	20
	Load		> 2K Ω
MPX & PILOT	Connector		BNC Unbalanced
	Maximum Level	dBu	14
	Load		> 50 Ω
<b>INTERFACES</b>			
Signalling LED			Yes
COMMAND	IN		DB25 Female (SCMLCDN+1 interface)
	OUT		DB25 Male (SCM-AES/EBU interface)
<b>FUSES</b>			
On mains			1 External fuse F 315 mA - 5X20 mm

#### SCM-AES/EBU

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply Voltage	80 - 260 VAC	Full Range Monophase
	Active Power Consumption	1W	
	Connector	VDE IEC Standard	
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483 / 19
		mm / inch	44 / 3 1/2
Weight		kg	About 1,4
Cooling			Convection cooling
Acoustic noise		dBA	0
<b>AUDIO INPUTS</b>			
L&R (from 1 to 4)	Connector		XLR female Balanced
	Data Formats		AES/EBU
	Impedance		110 Ω
<b>OUTPUTS</b>			
AES/EBU (from 1 to 4) & Reserve	Connector		XLR male Balanced
	Data Formats		AES/EBU
	Impedance		110 Ω
<b>INTERFACES</b>			
Signalling LED			Yes
COMMAND	IN		DB25 Female (SCMLCDN+1 or SCM-AUD interface)
<b>FUSES</b>			
On mains			1 External fuse F 315 mA - 5X20 mm

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### AUD6/1

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483 / 19
		mm / inch	88 / 3 1/2
Weight	kg	About 0,5	EIA rack
Cooling		Convection cooling	2HE
Acoustic noise	dBA	0	
<b>AUDIO INPUTS</b>			
L&R (from 1 to 6)		Connector	XLR female Balanced
MPX		Connector	BNC Unbalanced
<b>OUTPUTS</b>			
L&R (from 1 to 6) & L&R Reserve		Connector	XLR male Balanced
MPX		Connector	BNC Unbalanced
<b>INTERFACES</b>			
Signalling LED		Power	1 Green
		Position	6 Yellow
COMMAND		IN	DB25 Female (SCM6/1 interface)
		OUT	DB25 Male (RDS6/1 interface)

### AES6/1

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483 / 19
		mm / inch	88 / 3 1/2
Weight	kg	About 1,4	EIA rack
Cooling		Convection cooling	1HE
Acoustic noise	dBA	0	
<b>AUDIO INPUTS</b>			
L&R (from 1 to 6)		Connector	XLR female Balanced
		Impedance	110 Ω
<b>OUTPUTS</b>			
AES/EBU (from 1 to 6) & Reserve		Connector	XLR male Balanced
		Load	110 Ω
<b>INTERFACES</b>			
Signalling LED		Power	1 Green
		Position	6 Yellow
COMMAND		IN	DB25 Female (AUD6/1 interface)
		OUT	DB25 Male (RDS6/1 interface)

### RDS6/1

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483
		mm / inch	88 / 3 1/2
Weight	kg	About 0,5	EIA rack
Cooling		Convection cooling	1HE
Acoustic noise	dBA	0	
<b>AUDIO INPUTS</b>			
PILOT (from 1 to 6)		Connector	BNC Unbalanced
RDS (from 1 to 6)		Connector	BNC Unbalanced
SCA (from 1 to 6)		Connector	BNC Unbalanced
<b>OUTPUTS</b>			
PILOT (from 1 to 6) & Reserve		Connector	BNC Unbalanced
RDS (from 1 to 6) & Reserve		Connector	BNC Unbalanced
SCA (from 1 to 6) & Reserve		Connector	BNC Unbalanced
<b>INTERFACES</b>			
Signalling LED		Power	1 Green
		Position	6 Yellow
COMMAND		IN	DB25 Female (AUD6/1 interface) or (AES6/1 interface)

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# RDS & AUDIO EQUIPMENTS

AUD - RDS

MODELS

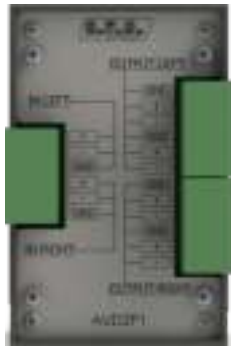
AUD2P1    AUD2MP1  
TRDS4002LUXOR-D



Designed to be the army knife in a transmission site when the audio has to be delivered, splitted, converted in different ways, the R.V.R. distribution's systems are studied to feed multiple destinations handling stereo, mono, MPX, AES/EBU, S/P-DIF and Toslink sources.

ORDERING INFORMATION	
Model	Description
<b>AUD2P1</b>	The audio splitter system allows you to split the audio signal in input and redistribute it on multiple outputs.
<b>AUD2MP1</b>	The audio splitter system allows you to split the audio signal in input and redistribute it on multiple outputs.
OPTION	
<b>AUD2MP1/V1</b>	2-Way passive audio distriution system for MPX/DIGITAL/L&R signals.
<b>AUD2MP1/V2</b>	2-Way passive audio distriution system for MPX+RDS/DIGITAL/L&R signals.
<b>AUD2MP1/V3</b>	2-Way passive audio distriution system for MPX+RDS+SCA1/DIGITAL/L&R signals.
<b>AUD2MP1/V4</b>	2-Way passive audio distriution system for MPX+RDS+SCA1-2/DIGITAL/L&R signals.

ORDERING INFORMATION	
Model	Description
<b>TRDS4002-LUXOR-D</b>	Advanced Radio Data System dynamical encoder with SNMP V 2 control.



AUD2P1

Accessory - Audio Distributor System.



AUD2MP1

Accessory - Audio Distributor System.



TRDS-4002-LUXOR-D

RDS.



### AUD2P1

Parameters			Value	Notes
<b>GENERALS</b>				
Operation temperature			From -10 °C to + 50 °C	
Operation humidity		%	95	Without condensing
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm	70	
Overall dimensions	L x H x W	mm	72	
Weight		kg	About 0,5	
<b>AUDIO INPUTS</b>				
Left & Right	Connector		Terminal Block	
	Impedance		600 Ω	
<b>OUTPUTS</b>				
Left & Right	Connector		2x Terminal Block	
	Channels loss		8 db @ 10 kΩ Load	
	Bandwidth		From DC to 20 kHz	

### AUD2MP1

Parameters			Value	Notes
<b>GENERALS</b>				
Operating temperature		°C	From -10 to +50	
Operating humidity		%	95% non condensing	
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	44 / 3 1/2	1HE
Weight		kg	About 2	
<b>AUDIO INPUTS</b>				
Left & Right	Connector		XLR (female)	
	Impedance	Ohm	600 (10k on request)	Balanced
	Channels loss	dBm	6	
	Bandwidth	Hz	From DC to 20k	
MPX	Connector		BNC	
RDS	Impedance	Ohm	10k	Unbalanced
SCA1	Channels loss	dBm	6	
SCA2	Bandwidth	Hz	From DC to 100k	
AES/EBU	Connector		XLR (female)	
	Impedance	Ohm	110	Balanced
<b>OUTPUTS</b>				
Left & Right	Connector		2 x XLR (male)	
	Impedance	Ohm	600 (10k on request)	Balanced
	Channels loss	dBm	6	
	Bandwidth	Hz	From DC to 20k	
MPX	Connector		2 x BNC	
RDS	Impedance	Ohm	10k	Unbalanced
SCA1	Channels loss	dBm	6	
SCA2	Bandwidth	Hz	From DC to 100k	
AES/EBU	Connector		2 x XLR (male)	
	Impedance	Ohm	110	Balanced
	Insert loss	dB	6	

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## TRDS4002-LUXOR-D

Parameters			Value	Notes
<b>GENERALS</b>				
Operating temperature			From -10 °C to +50 °C	
Operating humidity		%	95	Without condensing
A/D & D/A conversion			24 bit	
DSP Elaboration			32 bit, fixed point	
EN50067			PTY, PTYN, TA, TP, MS, DI, PI, PS, AF, PIN, EON, RT, TDC, IMC, EWS, IH, CT	
Command formats			UECP – SPB490 Ver.6.1 / 2003	
RDS function			57 kHz ± 1,5 Hz	(Internal/external reference)
57 kHz carrier attenuation		dB	Ø 75	
Phase 57 kHz			Adjustable up to 360° in 0,33° increments	
Out of band emission		dB	Ø 100	
<b>POWER REQUIREMENTS</b>				
AC Power input			115 /230 VAC ± 10%	
Connector		W	VDE IEC Standard	
<b>MECHANICAL DIMENSIONS</b>				
Overall dimensions		L x H x W	mm / inch	483
			mm / inch	44 / 3 1/2
Weight			kg	About 3,5
<b>AUDIO INPUTS</b>				
MPX		Connector		BNC
		Impedance	k Ω	10
		Input level		Gain 0dB / Max. +20 dBu
PILOT		Connector		BNC
		Impedance	k Ω	10
		Input level		Gain 0dB / Max. +20 dBu
<b>OUTPUTS</b>				
1&2		Connector		BNC
		Impedance	Ω	50
		Output level	dBu	+20
				Adjustable via software
<b>CONNECTORS</b>				
RS232 Serial port		Connector		3x DB9 (female)
		Connection rate		From 1200 to 115200 baud 8, N, 1
Remote Input		Connector		DB25 (male): 8 input + 8 output (optional)
Ethernet		Connector		RJ45 (female) WEB & SNMP v.1.0 (optional) SNMP V2.C (TRDSP-4002-LUXOR-D)
WEB Server				Built in for TRDS4002-LUXOR-D

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# GPS RECEIVER

GPSRXNV

MODELS

GPSRXNV-00  
GPSRXNV-01

GPSRXNV-02



**The GPSRXNV is a GPS receiver (Global Positioning System), suitable for the synchronization of isofrequency broadcasting systems (SFN - alias Single Frequency network).**

## ORDERING INFORMATION

Model	Description
<b>GPSRXNV-00</b>	External GPS Receiver.
<b>GPSRXNV-01</b>	External GPS Receiver with antenna.
<b>GPSRXNV-02</b>	External GPS Receiver (PTX CONFIG.)

## OPTION

<b>/DSTB-GPSRX</b>	10MHZ 1PPS distributor.
<b>/DST10</b>	Adds (3x) auxiliary outputs at 10MHz and (2x) auxiliary outputs at 1pps.



GPSRXNV-00

External GPS Receiver.



GPSRXNV-01

External GPS Receiver with antenna.



GPSRXNV-02

External GPS Receiver (PTX CONFIG.)



## GPSRXNV-00

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
Operating temperature		0°C +50°C	
Storage temperature		- 40°C +85°C 0°C +50°C	
Operating temperature		0°C 85°C,	Without condensation
<b>POWER REQUIREMENTS</b>			
C.A. power supply		c.100-120-230-250 VAC , 50-60 Hz	
C.C. power supply	VDC	+12	Monophase
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	Front panel width	mm / inch	483 / 19
	Front panel height	mm / inch	44 / 3 / 1 / 2
Weight	kg	About 4	
<b>AUDIO INPUTS</b>			
Connector		BNC	
Accuracy to UTC, with GPS locked		± 50 ns (1σ)	
GPS system		Integrated	
<b>OUTPUTS</b>			
Connector		N-type 5V output for antenna power supply	
Typical level		TTL	
10MHz output frequency accuracy		<± 2 x 10 <sup>-12</sup>	
Connector		BNC	
Signal form			Sinusoidal
Typical level		5 dBm / 50Ω	
Harmonic distortion		-25	
<b>INTERFACES</b>			
RS232 serial interface		DB9	Female connector to connect the receiver to an ext. devices for prog.
ALARMS interface		DB9	Male connector signaling of alarm status

## GPSRXNV-01

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
Operating temperature		0°C +50°C	
Storage temperature		- 40°C +85°C 0°C +50°C	
Operating temperature		0°C 85°C,	Without condensation
<b>POWER REQUIREMENTS</b>			
C.A. power supply		c.100-120-230-250 VAC , 50-60 Hz	
C.C. power supply	VDC	+12	Monophase
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	Front panel width	mm / inch	483 / 19
	Front panel height	mm / inch	44 / 3 / 1 / 2
Weight	kg	About 4	
<b>AUDIO INPUTS</b>			
Connector		BNC	
Accuracy to UTC, with GPS locked		± 50 ns (1σ)	
GPS system		Integrated	
<b>OUTPUTS</b>			
Connector		N-type 5V output for antenna power supply	
Typical level		TTL	
10MHz output frequency accuracy		<± 2 x 10 <sup>-12</sup>	
Connector		BNC	
Signal form			Sinusoidal
Typical level		5 dBm / 50Ω	
Harmonic distortion		-25	
<b>INTERFACES</b>			
RS232 serial interface		DB9	Female connector to connect the receiver to an ext. devices for prog.
ALARMS interface		DB9	Male connector signaling of alarm status

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## GPSRXNV-02

Parameters	U.M.	Value	Notes
<b>GENERALS</b>			
Operating temperature		0°C +50°C	
Storage temperature		- 40°C +85°C 0°C +50°C	
Operating temperature		0°C 85°C,	Without condensation
<b>POWER REQUIREMENTS</b>			
C.A. power supply		c.100-120-230-250 VAC , 50-60 Hz	
C.C. power supply	VDC	+12	Monophase
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	Front panel width	mm / inch	483 / 19
	Front panel height	mm / inch	44 / 3 / 1 / 2
Weight	kg	About 4	
<b>AUDIO INPUTS</b>			
Connector		BNC	
Accuracy to UTC, with GPS locked		± 50 ns (1σ)	
GPS system		Integrated	
<b>OUTPUTS</b>			
Connector		N-type 5V output for antenna power supply	
Typical level		TTL	
10MHz output frequency accuracy		<± 2 x 10 <sup>-12</sup>	
Connector		BNC	
Signal form			Sinusoidal
Typical level		5 dBm / 50Ω	
Harmonic distortion		-25	
<b>INTERFACES</b>			
RS232 serial interface		DB9	Female connector to connect the receiver to an ext. devices for prog.
ALARMS interface		DB9	Male connector signaling of alarm status

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# DUMMY LOADS

EDL-FM

MODELS

EDL1000-FM  
EDL3500-FM  
EDL5000-FM

EDL6000-FM  
EDL15000-FM



**Needed in mostly any broadcasting centre, our dummy loads and relays assure safe operations during transmission, maintenance and test operation.**

**ORDERING INFORMATION**

Model	Description
<b>EDL1000-FM</b>	<b>1kW</b> Dummy Load. Forced Air Cooled.
<b>EDL3500-FM</b>	<b>3.5kW</b> Dummy Load. Forced Air Cooled.
<b>EDL5000-FM</b>	<b>5kW</b> Dummy Load. Forced Air Cooled.
<b>EDL6000-FM</b>	<b>6kW</b> Dummy Load. Forced Air Cooled.
<b>EDL15000-FM</b>	<b>15.000W</b> Dummy Load. Forced Air Cooled.





**EDL1000-FM**

1kW Dummy Load. Forced Air Cooled.



**EDL3500-FM**

3.5kW Dummy Load. Forced Air Cooled.



**EDL5000-FM**

5kW Dummy Load. Forced Air Cooled.



**EDL6000-FM**

6kW Dummy Load. Forced Air Cooled.



### EDL1000-FM

Parameters	U.M.	Value	Notes	
<b>GENERALS</b>				
Max power rating	W	1000		
Frequency range	MHz	87.5 - 108.0		
Return loss	dB	>20		
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	230 VAC ±15% single-phase		
	Connector	VDE		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	132 / 3 1/2 3HE	
Weight	kg	About 19		
Cooling		Automatically forced air-cooled		
<b>AUDIO INPUTS</b>				
RF Input	Impedance	Ohm	50	
	Connector		7/16"	
<b>FUSES</b>				
On blowers		3 External fuses F 1A		

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### EDL3500-FM

Parameters	U.M.	Value	Notes	
<b>GENERALS</b>				
Max power rating	W	3500		
Frequency range	MHz	DC ÷ 108		
Return loss	dB	>27		
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	230 VAC ±15% single-phase		
	Connector	VDE		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	177 / 7 4HE	
Weight	kg	About 18		
Cooling		Automatically forced air-cooled		
<b>AUDIO INPUTS</b>				
RF Input	Impedance	Ohm	50	
	Connector		7/8"	
<b>FUSES</b>				
On blowers		/		

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#### EDL5000-FM

Parameters	U.M.	Value	Notes	
<b>GENERALS</b>				
Max power rating		5000		
Frequency range	MHz	DC ÷ 108 Mhz		
Return loss	dB	>27		
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	230 VAC ±15% single-phase		
	Connector	VDE		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	177 / 7 4HE	
Weight	kg	About 20		
Cooling		Automatically forced air-cooled		
<b>AUDIO INPUTS</b>				
RF Input	Impedance	Ohm	50	
	Connector		7/8"	
<b>FUSES</b>				
On blowers		/		

#### EDL6000-FM

Parameters	U.M.	Value	Notes	
<b>GENERALS</b>				
Max power rating		6000		
Frequency range	MHz	DC ÷ 108 Mhz		
Return loss	dB	>27		
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	230 VAC ±15% single-phase		
	Connector	VDE		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	L x H x W	mm / inch	483 / 19	EIA rack
		mm / inch	177 / 7 4HE	
Weight	kg	About 20		
Cooling		Automatically forced air-cooled		
<b>AUDIO INPUTS</b>				
RF Input	Impedance	Ohm	50	
	Connector		7/8"	
<b>FUSES</b>				
On blowers		/		

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# TELEMETRY SYSTEM

TLK - /TLW-E

**The possibility of remotely monitoring and controlling the station allows to optimize operation by preventing malfunctions and reducing intervention times in the event of a breakdown. RVR has a full set of remote control systems.**

## MODELS

TLK300  
TLK301

TLK302T  
/TLW-E



There are IP telemetry modules that can be integrated into the compact transmitters of the **TEXLCD** and **TEXTFT** series, **SNMP** telemetry for individual transmitting devices or systems, **SNMP2** telemetry systems for complex and redundant configurations, all compatible with any device such as smartphone, Desktop PC, Laptop.

Versions available for serial port, GSM, WEB, easy to configure and fully compatible with any operating system.

- **TLK300: SNMP external unit for single devices and systems.**
- **TLK301: SNMPv2, SNMPT Auth mail and slave SCMLCD4+1 systems.**
- **TLK302T: SNMP2 external unit for single devices and systems.**
- **/TLW-E: module that can be integrated into BLUES-NV, TEX-LCD and TEX-TFT devices.**

ORDERING INFORMATION	
Model	Description
<b>TLK300</b>	The telemetry systems allow for an immediate intervention in case of fault, thanks to the radio station remote control.
VERSION	
TLK300/V9	Telemetry unit SERIAL only for TX 1+1 Compact Transmitter Series with SCML1+1SL.
TLK300/V10	Telemetry unit GSM only for TX 1+1 Compact Transmitter Series with SCML1+1SL.
TLK300/V11	Telemetry unit WEB only for TX 1+1 Compact Transmitter Series with SCML1+1SL.
TLK300/V12	Telemetry unit WEB + GSM only for TX 1+1 Compact Transmitter Series with SCML1+1SL.

ORDERING INFORMATION	
Model	Description
<b>TLK301</b>	The telemetry systems allow for an immediate intervention in case of fault, thanks to the radio station remote control.
VERSION	
TLK301/V1	Telemetry unit serial for TX modular line.
TLK301/V2	Telemetry unit GSM for TX modular line.
TLK301/V3	Telemetry unit LAN for TX modular line.
TLK301/V4	Telemetry unit LAN+GSM for TX modular line.
TLK301/V5	Telemetry unit serial for TX PLUG-IN-CA.
TLK301/V6	Telemetry unit GSM for TX PLUG-IN-CA.
TLK301/V7	Telemetry unit LAN for TX PLUG-IN-CA.
TLK301/V8	Telemetry unit LAN+GSM for PLUG-IN-CA.

ORDERING INFORMATION	
Model	Description
<b>TLK302T</b>	TLK302T is an evolution of the TLK300 Telemetry Serie that includes additional functions for telemetry.
<b>TLK302T-02</b>	Double Telemetry unit WEB.
<b>TLK302T-M</b>	Telemetry unit WEB + FM Radio Receiver and Modulation Analyzer.

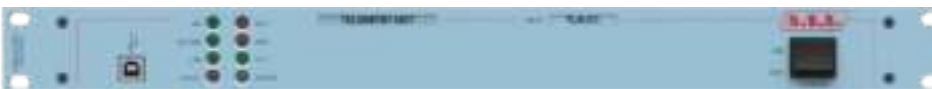
Module that can be integrated into **BLUES-NV**, **TEX-LCD** and **TEX-TFT** devices.

ORDERING INFORMATION	
Model	Description
<b>/TLW-BLU-E</b>	BLUES30NV BLUES50NV
<b>/TLW-TEX-E</b>	TEX30LCD/S TEX50LCD/S TEX100LCD/S TEX150LCD/S TEX300LCD TEX502LCD TEX702LCD TEX3500LCD
<b>/TLW-TFT-E</b>	TEX32TFT TEX52TFT TEX302LCD/S TEX502TFT TEX702TFT TEX1002TFT TEX1003TFT TEX1703TFT TEX2003TFT TEX2503TFT TEX5004TFT



TLK300

Telemetry System.



TLK301

Telemetry System.





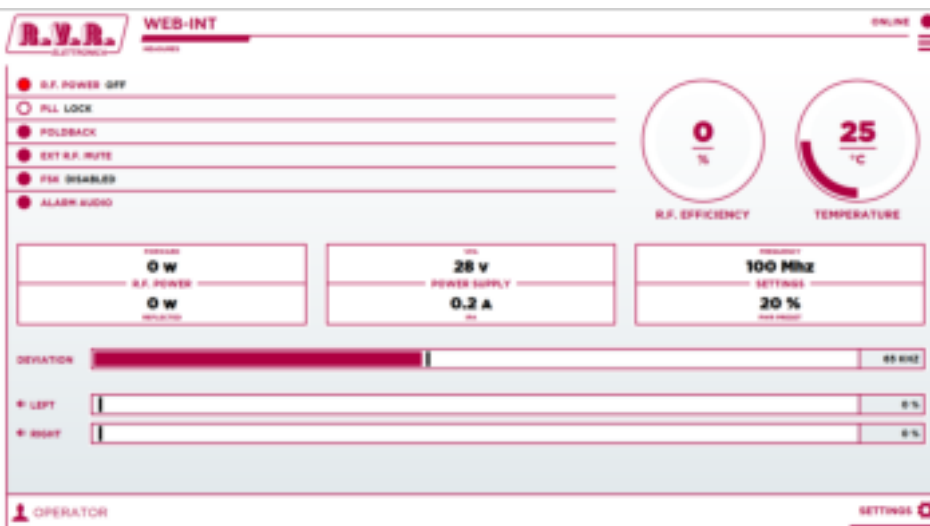
TLK302T

Telemetry System.



/TLW-E

Telemetry System.



### TLK300

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply Voltage	VAC	80 - 260
	AC Apparent Power Consumption	W	25
	Connector		VDE IEC Standard
DC Power Input	DC Supply Voltage	VDC	12
	DC Current		< 3 a
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483 / 19
		mm / inch	88 / 3 1/2
Weight		kg	About 4,3
Cooling			Convection cooling
Acoustic noise		dBA	0
<b>INTERFACES</b>			
Signalling LEDs			Yes
Display	40X2 Alphanumerical		No
Push buttons	4 (UP, DOWN, ENTER, ESC)		No
USB	TELECON Protocol		Yes
RS232	TELECON Protocol		Yes
RS485	PLUG-IN Protocol		Yes (Only on TX PLUG-IN CA versions)
I2C			Yes
	LAN		Yes (Only on WEB versions)
	10/100 base-T Ethernet LAN		Yes
RJ45	HTTP and AJAX		Status and configuration can be accessible from any internet browser on a PC or smartphone
	SMP		Alarm notification events sends via emails (up to 4 independent address can be defined)
			Yes (Only on GSM versions)
SIM slot & ANTENNA			Yes (Only on GSM versions)
<b>FUSES</b>			
On mains			1 External fuse F 1 A F - 5X20 mm
On services			X
On PA Supply			X
On driver supply			X

### TLK301

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature	°C	-10 to + 5	Whithout condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply Voltage	VAC	80 ÷ 260 *
	AC Apparent Power Consumption	W	25
	Connector		VDE IEC Standard
DC Power Input	DC Supply Voltage	VDC	12
	DC Current		< 3
<b>FUSES</b>			
On mains			1 External fuse F 1 A F ÷ 5X20 mm
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	Front panel width	mm / inch	483
	Front panel height	mm / inch	44
	Overall depth	mm / inch	263
	Chassis depth	mm / inch	239
Weight		kg	About 4,3
<b>INTERFACES</b>			
Signalling LEDs			Yes
Display	40X2 Alphanumerical		No
Push buttons	4 (UP, DOWN, ENTER, ESC)		No
USB	TELECON Protocol		Yes
RS232	TELECON Protocol		Yes
RS485	PLUG-IN Protocol		Yes (Only on TX PLUG-IN CA versions)
I2C			Yes
RJ45	LAN		Yes (Only on WEB versions)
SIM slot & ANTENNA			Yes (Only on GSM versions)
<b>VARIOUS</b>			
Cooling			Convection cooling
Acoustic noise		dBA	0

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## TLK302T

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>			
AC Power input	AC Supply Voltage	VAC	100 - 240
	AC Apparent Power Consumption	W	15
	Connector		VDE IEC Standard
<b>MECHANICAL DIMENSIONS</b>			
Physical dimensions	L x H x W	mm / inch	483
		mm / inch	88 / 3 1/2
Weight		kg	About 1
Cooling			Convection cooling
Acoustic noise		dBA	0
<b>INTERFACES</b>			
Signalling LEDS			Yes
RS232			Yes
RS485	PLUG-IN protocol		Yes (only exciter PTX)
I <sup>2</sup> C	For sampling the RVR station single and dual exciter		Yes (only TX PLUG IN-CA version)
RJ45	10/100 base-T Ethernet LAN		Yes
	HTTP		Status and configuration can be accessible from any internet browser on a PC or smartphone.
	SNMPV 2.0		Status and configuration can be accessible from MIB browser and TRAP alarm receiver.
	SMTp		Alarm notification events sends via emails (up to 2 independent address can be defined).
	SMTp		Built-in dock synchronization over networks.
<b>FUSES</b>			
On mains			1 External fuse F 3,15 A T - 5X20 mm
On services			X
On PA Supply			X
On driver supply			X

## /TLW-E

Parameters		Value	Notes
<b>GENERALS</b>			
Ambient working temperature		-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>FEATURES</b>			
I2C Slave for connection to external telemetry			X
Connection with WEB Browser (IE, Firefox, Opera, ..)			X
WEB protection with 2 Password Levels			X
SNMP connection (GET,SET)			X
TRAP notification with Station name			X
TRAP notification with Counter			X

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