

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 Adaptive precorrection (auto function).**
- **SNMP2 Remote control.**
- **Innovative network monitoring capability over Telegram™ (option).**

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

OPTION	
/TWINEDI	Dual EDI inputs.
/RXDVBS2	Integrated DVBS-DVBS2 receiver.
/RXGLONS	Integrated glonass receiver.
/TELEGRAM	Telegram™ interface.
/SURSATIN	Surge protector RF satellite input.
/SURLAIN	Surge protector for LAN input.
/GPSANTS	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	
GENERALS						
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			
Pre-correction	linear, non linear		static, single, continuous, adaptative			
RF Output connector			Nf (DRT50)	Nf (DRT100)	Nf (DRT150)	
ENVIRONMENTAL WORKING PARAMETERS						
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	
MECHANICAL DIMENSIONS						
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	
MAINS POWER REQUIREMENTS						
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	
INPUT / OUTPUT INTERFACES						
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 DVBS2 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			
AVAILABLE OPTIONS:			/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS			

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.

Parameters	U.M.	DRT250			DRT300			DRT500			Notes	
		Value			Value			Value				
GENERALS												
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)							
ENVIRONMENTAL WORKING PARAMETERS												
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing									
Working altitude		mt. abst	standard : 2500 / optional: 3000									
Cooling	forced air cooling		4 blowers									
MECHANICAL DIMENSIONS												
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 15									
MAINS POWER REQUIREMENTS												
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							
INPUT / OUTPUT INTERFACES												
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										
AVAILABLE OPTIONS:		/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS										

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		DRT700		DRT1000		Notes
Parameters		U.M.	Value			
GENERALS						
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			
Precorrection	linear, non linear		static, single, continuous, adaptative			
RF Output connector			DIN 7/16" female / EIA 7/8" Flange			
ENVIRONMENTAL WORKING PARAMETERS						
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing			
Working altitude		mt. absl	standard : 2500 / optional: 3000			
Cooling	forced air cooling		9 blowers			
MECHANICAL DIMENSIONS						
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			
MAINS POWER REQUIREMENTS						
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			
INPUT / OUTPUT INTERFACES						
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			
AVAILABLE OPTIONS:			/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS			

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