

# 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

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.

## 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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