



The GPS controlled receiver for time/frequency reference allows to distribute up to 6 reference signals '10 MHz' and up to 6 signals '1 PPS' (Pulse Per Second) thanks to the integrated professional GPS receiver.

This device can therefore be used in all those scenarios where a time reference common to multiple devices is needed: e.g., in SFNs (Single Frequency Networks) with digital DVB-T transmitters, or in laboratory measurements with high precision temporal sources.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

GPS RECEIVER

Number of channels	50
Acquisition and tracking time	1 min
Sensitivity	-160 dBm

1 PPS

Number of outputs	6 (BNC connectors)
Holdover PPS 10 μ s duration	24 h ($\pm 10^\circ\text{C}$ or $\pm 25^\circ\text{C}$)
Phase stability when locked	± 30 ns typ.
Level	3.3 Vpp / 1 k Ω

10 MHz

Number of outputs	6 (BNC connectors)
Phase alignment	± 5 ns @ 25°C
Phase noise	-125 dBc @ 10 Hz
(10 MHz sine)	-140 dBc @ 100 Hz
	-140 dBc @ 1 kHz
Level of 10 MHz square	3.3 Vpp / 1 k Ω

TRACKING, FILTERING, HOLDOVER

OCXO performance ageing	1E-10
OCXO performance thermal	1E-9 peak to peak

COMMUNICATION INTERFACES

Ethernet	100baseT - TCP/IP, HTTP
RS232	9600, 8, N, 1

GENERAL

Antenna connector	N, female, 50 Ω
Primary power supply	110 \div 240 Vac
DC Backup	36 \div 72 Vdc
Operating temperature	-20 \div +65 $^\circ\text{C}$
Storage temperature	-25 \div +80 $^\circ\text{C}$
Storage relative humidity	10% \div 80%
Dimensions	Rack 19" 1U (483 \times 45 \times 270 mm)
Protection degree	IP50