## **GPS Master Clock**

- Accurate to 25ns RMS UTC
- o Phase Noise -110dBc/Hz @ 1Hz offset
- Stability @ 1s 8x10<sup>-13</sup> Typical



The E8000 represents a breakthrough in low noise, traceable, calibration free GPS frequency & time standards. This cost effective frequency reference maintains the high frequency & time accuracy required for the more demanding applications. Low distortion 10MHz Sine & 1PPS outputs.

Considerably enhanced surveillance, wired and wireless communications are possible with the E8000's much lower noise levels

## **Features**

- 1x10<sup>-12</sup> accuracy
- No Drift
- 50ns 1PPS accuracy to UTC
- RS232 NMEA NTP Time Reference
- Excellent holdover performance

## **Benefits**

- No calibration required
- GPS receiver provides high accuracy UTC time & frequency reference
- National & International traceable reference

## **Applications**

- Frequency Reference for: Satellite Communication ground stations, VHF,UHF, & PMR TX, CDMA, Tetra, DTV & DAB, wired & wireless network sync
- Network time protocol use in financial services, utilities, security & communications timing
- Frequency Standard for Calibration / RF Laboratories & Production Test
- Calibration of: Counters, Frequency Meters, Spectrum & Network/VNA Analysers, Synthesizers & Communication Analysers

Specification	on ————————————————————————————————————	E8000
Type		OCXO Rack
Output		10MH-
	requency	10MHz
	evel	+7dBm ±2dBm 500hms
	lumber	1 to 10
	connector	BNC
Frequency		1.00E-12
Frequency		2.005.12
	S	2.00E-12
_	0s	5.00E-12
	00s	2.00E-12
	Hour	6.00E-12
Aging		
	Day	3.00E-12
	Month	4.00E-11
1	Year	5.00E-10
Phase Nois	<b>e</b> dBc/Hz in 1Hz BW	
1	Hz	-110dBc/Hz
1	0Hz	-140dBc/Hz
1	00Hz	-145dBc/Hz
1	kHz	-155dBc/Hz
1	0KHz	-157dBc/Hz
Harmonics		<-30dBc
Spurious		<-80dBc
Start Up (W	/arm) Time	<25 Minutes
1PPS		
A	ccuracy	<±12ns
H	Ioldover	<±50ns
L	evel	3.3VCMOS
N	lumber	1 to 10
C	Connector	BNC
Power Sup	ply	
A	AC	90 - 240Vac
D	OC .	External Input Option
Power Cons	sumption @ 25°C	
	Varm Up	11W
	tabilized	5W
Temperatu		
<del>-</del>	Operating	-20°C to +50°C
	torage	-40°C to +70°C
п GPS Antenr	Iumidity	90% (Non Condensing)
	<del></del>	204b @ 2 2A
	lain	28dB @ 3.3V 0.8dB
	loise Figure	
	oltage	2.7-5 Vdc
	Connector	BNC
	founting	Magnetic
	able	5m
Mechanical		.,
	olour	Aluminium
	Dimension	44 x 483 x 240mm
	Dimension Packed	100 x 560 x 340mm
V	Veight	3kg