

OSA 4500 GLONASS+GPS OEM Clock

GLONASS + GPS-based High Precision Clocks providing very High Stability and Accurate Frequency and Phase to the host system

Typical Characteristics

Outputs

1 to 4x 10 MHz sine outputs :

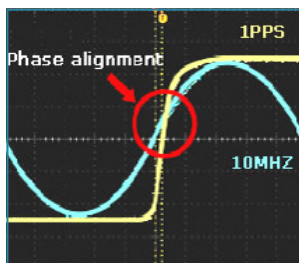
- 0.5 or 1 VRMS \pm 30%, Sine wave, 50 Ω or LVCMOS

1x 10 MHz square output :

- 2.4 or 3.3 VPP, LVCMOS

1 to 4x 1PPS outputs:

- 2.4 or 3.3 VPP, Square, 50 Ω (others opt.) or LVCMOS



Phase alignment of 1PPS and 10MHz outputs with "0 crossing" in both tracking and holdover modes

Power supply

- 12 VDC \pm 5%
- 12 Watts at warm-up, 8 Watts steady state (at 25°C)

Management

- RS-232C local management
- Alarm dry contacts
- 1x or 4x TOD (Time-Of-Day) outputs compliant to NMEA0183
- GUI-based Configuration and Monitoring software

Environmental Characteristics

- Operating temperature max.: -5 to +55°C
- Storage temperature max.: -40° to +85°C
- Humidity: 5 to 95% non condensing

Holdover performances

OCXO	8663 & ATDC	8663	8788	8625
Long term stability (Freq. Var. per day)	3x10E-11	1x10E-10	2x10E-10	1x10E-09
Thermal stability* (Freq. var. peak-peak over full temp. range)	2xE10-10	6x10E-10	2x10E-08	5x10E-08

*Related to each specific OCXO's operating temperature range

GLONASS - GPS system

- 24 channels**
- GLONASS:** L1-range (1592-1610 MHz), CT-code
- GPS:** (L1-range 1575.42 MHz), C/A-code
- Cold Start:** 90 sec.
- Sensitivité:** -155 dBW

Antenna cable

Choice of antenna cables:

- 10m
- 20m
- 60m
- 120m (w/amplifier)
- other length on demand

Connectivity

SMB or MCX (angle or Straight)

- 1 to 4x 1PPS, 50 Ω outputs
- 1 to 4x 10MHz, 50 Ω outputs
- 1x GNSS antenna, 50 Ω input



ERNI SMC-B 50 poles female

- For Board to Board or flat cable connection (available on top side and/or back side of PCB)
- 12 VDC power supply and GND
- 4x 1PPS and 4 x 10MHz sine-wave outputs
- 1x 10MHz LVCMOS
- 4x Alarm opto-couplers (collector/emitter)
- Rx/Tx management port (RS232 or LVCMOS)
- 4x additional TOD outputs (RS232 or LVCMOS)



Mechanical

Size (H x W x D):

- 28,6 x 123,4 x 98 mm (OCXO 8663)
- 23,6 x 123,4 x 98 mm (OCXO 8788)
- 12.6 x 123,4 x 98 mm (OCXO 8625)

Actual features and performance depends on chosen/offered factory options: oscillators, connectivity, firmware options.

Customized configurations can be offered with attractive prices for volume orders.

Number of outputs, type of connectors, lower grade oscillator when Holdover capability is relaxed.

Oscilloquartz SA reserves the right to change all specifications contained herein at any time without prior notice.



developed by



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