

GPS NMEA and 1PPS Fiber Optic Transceiver

GPSX-1001

The **LuxLink®** GPSX-1001 is a fiber optic transceiver that is designed to transmit, receive, repeat and distribute the NMEA-0183, NMEA-0183-HS and 1 PPS signals produced by a standard GPS receiver on a single optical fiber.

The unit may be used as a stand-alone optical transmitter, a stand-alone optical receiver or an optical repeater as selected by the user. Indicators are provided to monitor the presence of the various signals and multimode as well as single-mode fiber optic versions are available.

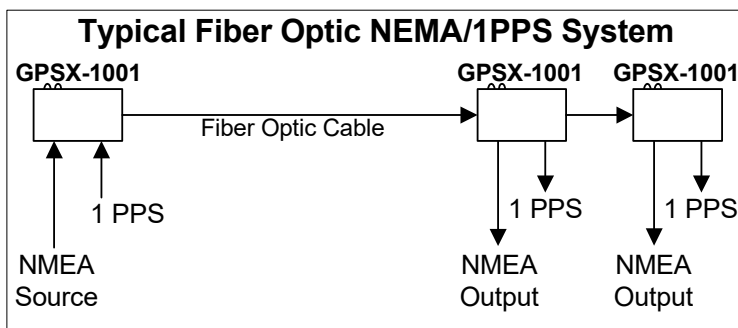


Technical Specifications

Important Features

NMEA 0183 Channel data rate	DC to 100 Kb/sec
NMEA 0183 Interface	EIA-422 or EIA-232 (user selectable)
NMEA 0183 Connector	Removable terminal block
1 PPS Interface	TTL/50 ohms
1 PPS Rise/Fall Time	<10 nanoseconds
1 PPS Jitter	<±250 nanoseconds
1 PPS Signal connector	BNC
Operating wavelength	850nm (multimode) 1310nm (single-mode)
Optical loss budget	0-12 dB (multimode) 0-15 dB (single-mode)
Optical connector	ST (multimode) FCPC (single-mode)
Indicator LEDs	Pwr, Link, 1 PPS, NMEA
Operating Temperature	-35° to +75°C
Humidity	0 to 95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power requirements**	11-24 VAC/DC @300 mA
Power connector	Removable terminal block
Physical Size (mm)	5.0"(127)W x 3.0"(76)D x 1.0"(25.4)H

Note that all specifications are subject to change without prior notice.



- **Low/High Speed NMEA Interface**
- **EIA-422 or 232 User selectable**
- **Multimode or Single-mode Fiber versions**
- **Stand-alone, DIN or Rack Mountable (same unit)**

Ordering Information

Transceiver GPSX-1001-X

"X" = Wavelength/Fiber

- 1 = 850nm Multimode
- 3 = 1310nm Multimode
- 5 = 1310nm Single-mode
- 7 = 1310nm Single-mode
- 9 = 1550nm Single-mode

**For stand-alone operation order a PS-1205 power supply for each unit.

**For rack mounted operation all operating power is provided by power supply used with the rack mounting panel.

LuxLink®

Fiber Optic Transmission Systems

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