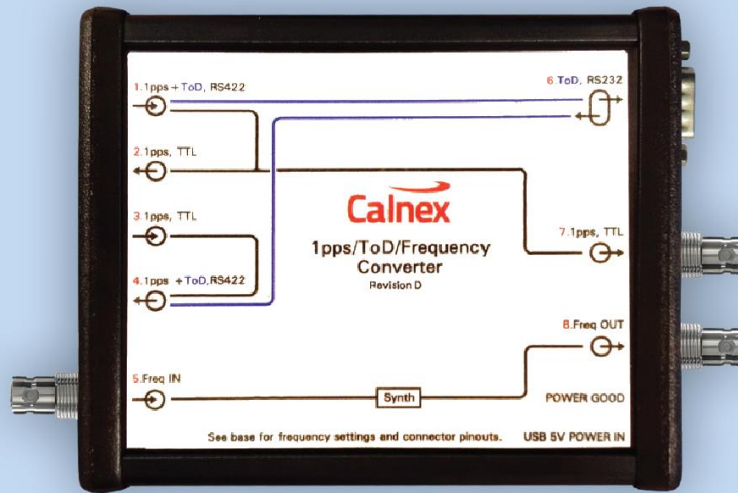


# 1pps/ToD/Frequency Converter



FUNCTION	INPUT	OUTPUT
Combined differential 1pps+ToD serial signal conversion to separate 1 pps TTL and ToD RS-232 signals	RJ-45 connector. Combined differential (RS-422) 1pps and ToD. Normally connected to slave clock output.	1pps TTL (single-ended) pulse on RJ-45 connector (port 2) and BNC female connector (port 7). ToD RS-232 signal on DB9 connector (port 6). RJ-45 is normally connected to Paragon 1pps and GPS inputs while the BNC is normally connected to Sentinel 1pps. Use crossover (null modem cable) to connect ToD RS-232 cable from accessory to the Paragon Port 1 to Port 2/7 delay = 40ns
ToD serial signal conversion from ToD RS-232 signals	ToD RS-232 signal on DB9 connector (port 6)	RJ-45 connector (port 4), RS-422
1pps TTL signal format converter	RJ-45 connector (port 3), TTL high impedance	RJ-45 connector (port 4), RS-422 Port 3 to Port 4 delay = 13ns
10MHz wander measurement vs 10MHz reference on the Paragon	10MHz on BNC female connector (port 5)	2MHz on BNC female connector (port 8), which tracks input 10MHz wander
10MHz signal to 25MHz conversion. Switch selectable	10MHz on BNC female connector (port 5)	25MHz on BNC female connector (port 8), frequency locked to input
25MHz signal to 10MHz conversion. Switch selectable	25MHz on BNC female connector (port 5)	10MHz on BNC female connector (port 8), frequency locked to input

## SPECIFICATIONS

**Power Supply:** USB 5Vdc/3W direct, or via supplied 100-254Vac/47-63Hz AC adapter

**Temperature:** 0°C to +50°C

**Humidity:** Relative humidity from 0% to 95%. However, the unit should also be protected from temperature extremes which can cause condensation within the unit.

**Size:** 140x35x105mm

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Additional reference frequency conversion ratios may be available, contact Calnex for more information.