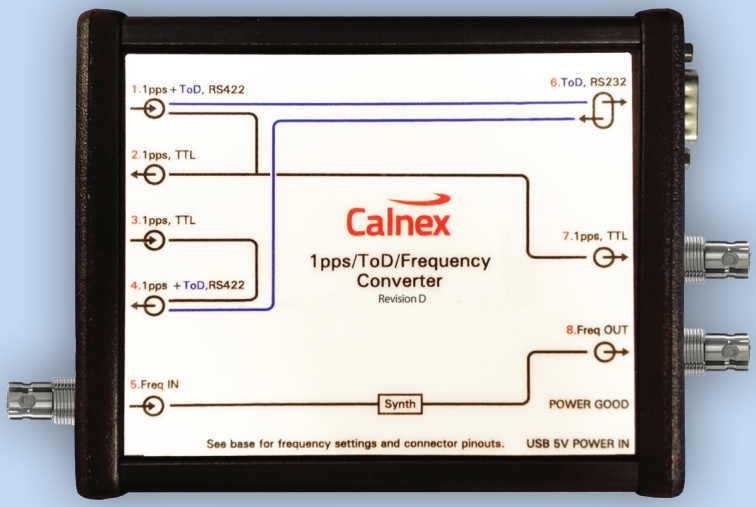
1pps/ToD/Frequency Converter



FUNCTION	INPUT	OUTPUT
Combined differential 1pps+ToD serial signal conversion to separate 1pps 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.	RJ45 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

Size: 160 x 35 x 105mm (w x h x d)

Weight: 320g

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

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CX2010 v2.0