

# VIAVI CLAW

## GPS Simulator/Transcoder Desktop Unit

### Typical Electrical Specifications

Data/Power connectors	Mini-USB for power and SCPI, 16-pin 2 mm Hirose for power and external GNSS
RF output Accuracy	GPS Signal accuracy better than 0.5 m RMS, better than 5 ns RMS, better than $\pm 1.5$ dB
Internal monitoring GNSS receiver	Built-in 8 <sup>th</sup> generation GNSS receiver for background monitoring of RF output power, and RF signal quality
Outputs	One CMOS 1 PPS output, one 10 MHz CMOS output, disciplined by external 10 MHz or 1 PPS reference
	One RF SMA, GPS L1 C/A code, -100 to -145 dBm, $\pm 1.5$ dB accuracy
Spectral Purity (1 MHz to 13.2 GHz)	< -33 dBc in-band (L1, $\pm 20$ MHz), < -80 dBm out-of-band
Harmonics of L1 (1.57542 GHz)	< -150 dBm
USB Control	SCPI-99 Control at 9.6 K, 19.2 K, 38.4 K, 57.6 K, 115.2 K
External GNSS receiver compatibility	Any NMEA-compatible source, direct control of Rockwell Collins GB-GRAM and MicroGRAM SAASM GPS, and u-Blox GNSS receivers
USB SCPI Control/Monitoring Port	Compatible to any terminal program and JLT-GPSCon, NMEA output sentences
Operating Temperature	Extended Temperature range of -40°C to +70°C
MTBF	> 600,000 Hours at +40°C



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## Receiver

### Internal Monitoring GNSS Receive

No. of Channels	Built-in 8th generation GNSS receiver for background monitoring of RF output power and RF signal quality
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### External GNSS receiver compatibility

Any NMEA-compatible source

Direct control of Rockwell Collins GB-GRAM and MicroGRAM SAASM GPS

u-Blox GNSS Receivers

## Environmental

### Temperature

Operating	-40° to 70°C (-40° to +158°F)
MTBF	600,000 hours at 40°C

## Physical Characteristics

### Temperature

Size	1" H x 3" W x 8" D
Weight	1 lbs. (454 g)

## Compliance

CE

UL/EN 61010-1

EN 61326-1

MIL-PRF-28800F (Class 3 Device)

NOTE: Specifications subject to change without notice.



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