

# RSR Transcoder™ v2.0

## RSR GNSS Transcoder and GPS Full-Constellation Simulator

### Typical Electrical Specifications

Data/Power connectors	SMA RF Output, 3-pin locking Circular DIN for Power, 12-pin locking Circular DIN for Serial Input/Output
Outputs	One 3.3 V CMOS, 1 PPS, RS-232 serial, one 10 MHz CMOS, disciplined by external 1 PPS reference or internal CSAC
	One RF SMA, GPS L1, L2, C/A, P-code, -100 to -125 dBm
Spectral Purity (1 MHz to 13.2 GHz)	< -33 dBc in-band (L1, ±20 MHz), < -80 dBm out-of-band
Harmonics of L1 (1.57542 GHz)	< -150 dBm
USB Control	SCPI-99
External GNSS receiver compatibility	Any NMEA compatible source, direct control of Rockwell Collins DAGR 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	-20°C to 55°C
CSAC Holdover	< 1 μs/24 hrs typical @ 25°C with ±5°C change after 48 Hrs with stable 1 PPS UTC reference input



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