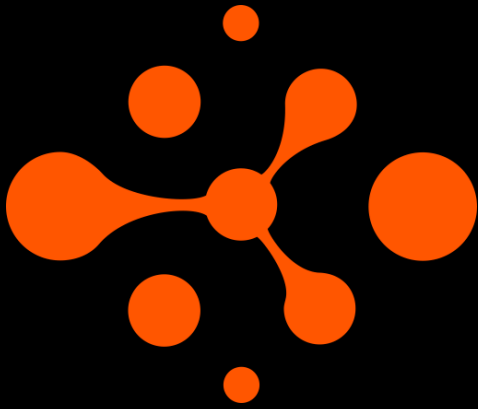


# MSD-200 Series



We develop advanced instruments for science research, industrial measurements and other special applications



## The MSD-295 – Precision Rubidium Standard 10MHz and 1PPS, GNSS disciplined generator module.



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The MSD-295 is a high precision rubidium oscillator driven generator of 10MHz and 1PPS reference signals. It delivers unmatched signal purity, frequency stability for 10MHz sine wave, 10MHz pulse and 1PPS. MSD-295 can be disciplined from internal GNSS receiver to get more accurate UTC time scale.

Description	Value
Outputs	3x10MHz sine wave 7 dBm (1.5Vpp) - SMA 1x10MHz pulse TTL–SMA 1x1PPS pulse TTL -SMA
Interfaces	RS232–monitoring or ToD NMEA (DB9) USB-C for configuration and firmware upgrade
User interface	LCD display & kbd
Accuracy	5x10E-11 @ 25°C
Short-term stability	3E-12 / 100 sec.
Output frequency accuracy: - GNSS locked - Holdover	1E-12 typical <5E-11/month
RF out	Sine wave 0.5 Vrms (1.5Vpp) (± 10% / 50Ω)
10MHz TTL out	2.5V @ 50Ω
1PPS TTL out	2.5V @ 50Ω
GNSS sync error	<50ns (<10ns as an option)
Power	230V AC 50W (max)
Dimensions	444 (W) x 250 (D) x 45 (H) mm (19" 1U) - Rack mounted