

SMA PROGRESS, LLC

AJS-1 Anti-Jamming NTP Server



AJS-1 NTP Server is a high precision multi-service, time and frequency synchronization solution which can be used to provide ITU-T, G.811 Primary Reference Clocks which are referenced to a GNSS or GPS source, as well as to synchronize the time-of-day and frequency across multiple nodes of the network. AJS-1 GNSS or GPS Primary Reference (PRC) Clock is specifically designed for the synchronization of 2G, 3G, HetNet and LTE mobile telecommunications networks as well as backhaul wire-line SDH / SONET and Synchronous Ethernet networks. It may be also used by Railways, Airports (including airtraffic control), Power generation and distribution companies and other Utility companies who not only require a highly precise time-of-day and G.811 frequency synchronization locked to a GPS Reference but who also need to distribute highly precise time-of-day and frequency synchronization across all nodes of their networks. The AJS-1 is always locked to a GPS reference to provide multiple G.811 / Stratum 1 quality frequency and time-of-day (IRIG-B and NTP) outputs. The AJS-1 is also equipped with a highly accurate, low-noise OXCO / Rubidium oscillator which provides a high stability holdover clock that is typical of a Network SSU in the event of the GPS signal or its antenna failure.

Anti-Jamming NTP Server Applications

Synchronizing Cellular networks like UMTS, GPRS, 3G and LTE
Power generation and distribution companies and other utility companies
Wireless and Wireline Telecom synchronization
Distributing Time (ToD) and Frequency reference for power utilities across all nodes of the network
Synchronization of Defense Networks
Synchronizing airports and aviation communications
Synchronizing railway signaling networks and railway communications
Synchronizing traffic management
Broadcasting Network and Broadcast equipment synchronization.

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GNSS Receiver:	GAJR Anti-Jamming Receiver; GPS L1/L2 + GLONASS L1/L2 + Galileo E1B/ E1C / E5b + BeiDou B1/B2
Dimensions/ Weight:	200 x 200 x 65 mm / 2400 g
Anti-Jam Performance (20 MHz broadband jammer):	110 J/S
Timing Accuracy:	Network: ± 12 milliseconds, typical GPS: <1 microseconds, relative to UTC
NTP Time Requests:	>5,000 requests per minute
Oscillators	Voltage Controlled Temperature Compensated Crystal Oscillators, +/- 0.5 ppm
Power Consumption:	8 Watts
Dimensions/ Weight:	60 × 127 × 134 mm / 500 g
Protocols Networks/ Net	IP v4, TCP, UDP / Single RJ-45 Network Connection 10/100 MBit
Operating System:	Linux
Protocols (NTP & SNTP):	NTP: v2 (RFC 1119), v3 (RFC1305), v4 (RFC 2131) SNTP: v3 (RFC 1769), v4 (RFC 2030)
Input Interface:	1 PPS, TTL, SMA; NMEA, RS-232
Output Interface:	- 1 PPS (1 Hz), TTL, SMA; - 10 MHz, TTL, 50 Ohm, SMA; - IRIG AM, DCLS, TTL, SMA, - NMEA, RS-232
Interface:	2 x RS-232, DB-9: Terminal/ NMEA; NMEA, 1PPS
Power supply:	12 or 36V DC
Operating Temperature:	0-50°C / 32-122°F
Operating Humidity:	Max. 85%

For more information about **AJS-1 NTP Server**, please contact:

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