

NTP-8



Time Server

THE NTP8 NETWORK TIME SERVER PROVIDES A HIGH PERFORMANCE MEANS OF ACCURATE TIME DISTRIBUTION OVER A LOCAL AREA NETWORK (LAN), SYNCHRONIZING THE TIME TO A SATELLITE GPS. THIS IS DONE USING THE NETWORK TIME PROTOCOL (NTP), A PROTOCOL THAT IS WIDELY USED TO SYNCHRONIZE THE INTERNET AND INCLUDED IN THE MARKET'S MOST FREQUENTLY IMPLEMENTED OPERATION SYSTEMS.



TIME RECORDERS, TIME CONTROL AND TIME MEASUREMENT

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Network Time Server

THE NTP8 IS SYNCHRONIZED BY GPS SATELLITE SYSTEMS. THIS ALLOWS FOR ITS INSTALLATION IN ANY PART OF THE WORLD AS WELL AS THE IMPLEMENTATION OF A STRATUM 1 TIME SERVER ACCORDING TO REGULATIONS. THE UNIT HAS A TXCO OSCILLATOR THAT IS DESIGNED TO MAINTAIN HIGH STABILITY AND PRECISION IN SYNCHRONIZATION, EVEN DURING THOSE INSTANCES WHEN THE EXTERNAL GPS SIGNAL IS NOT AVAILABLE. BY USING POWERFUL NTP STATISTICAL ALGORITHMS, THE NTP8 CAN PROVIDE CLIENT SYSTEMS WITH A TIME PRECISION OF BETTER THAN 1 MILLISECOND.

THE NTP8 HAS AN SNMP (SIMPLE NETWORK MANAGEMENT PROTOCOL) REMOTE MANAGEMENT SYSTEM FOR CONFIGURING THE UNIT AND MANAGING ITS ALARMS BY MEANS OF STANDARD COMPUTER NETWORK SUPERVISION TOOLS. YOUR NTP8 WILL BE INTEGRATED INTO THE NETWORK AS ONE MORE UNIT.

FOR GREATER NETWORK SECURITY, THE UNIT COMES EQUIPPED WITH THE POSSIBILITY OF IMPLEMENTING THE MDB5 AUTHORIZATIONS FORESEEN IN THE NTP PROTOCOL.

TECHNICAL CHARACTERISTICS

Connectivity

- ▣ The unit has a standard RJ45 connector for a 10BASE-T network.
- ▣ AUI port type for other TCT/IP network typologies.
- ▣ Configuration of series RS232 port for DB9
- ▣ 1 pps output for 50 Ohm BNC connector, TTL levels.
- ▣ 50 Ohms impedance BNC input for GPS antenna.
- ▣ Bullet active type high-gain, low-noise antenna with 15m of RG-48 cable (consult for lengths of over 200 m)

Standards

- ▣ NTP (Network Time Protocol) Version 3 [RFC 1305] compatible SNTP (Simple Network Time Protocol)
- ▣ SNMP v1 (Simple Network Management Protocol)
- ▣ Enterprise MIB (RFC 1155, RFC 1157, RFC 1213)
- ▣ Daytime Protocol (RFC867), Time Protocol (RFC 868)
- ▣ Ethernet/IEEE802.3, UDP/IP, ICMP

Network Configurations

- ▣ The configuration is stored in a non-volatile memory system. The network setting configurations are done through a series RS232 service port. The configurable parameters are: IP Address, Sub-net Mask, Gateway Address, SNMP Trap Address and SNMP Read/Write community names.

All of these settings can be pre-programmed at the factory by special order.

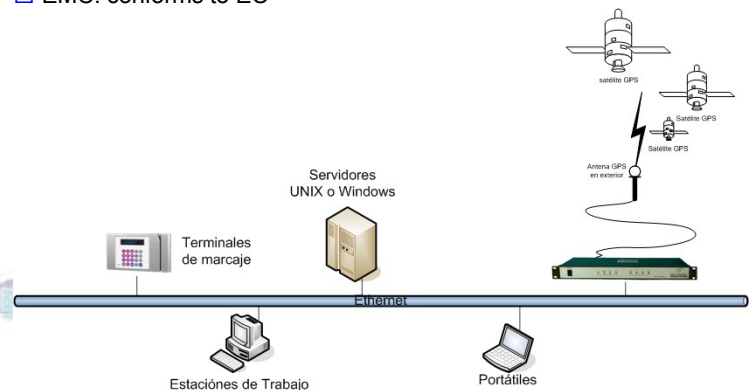
The same configuration port is used for updating the unit's internal software.

Optional Extras

- ▣ Telnet configuration/status display option. AUI connector via DB15 (female).

Specifications

- ▣ Time precision: ± 2 microseconds with respect to UTC (with adequate satellite visibility).
- ▣ Power: 85-264V AC 47-63Hz, energy consumption: 40W. Connection via IEC 3.
- ▣ Dimensions: 19-inch rack, 1U height, 200 mm depth
- ▣ Weight: 5Kg
- ▣ Temperature: from 0°C to +40°C
- ▣ Humidity tolerance: Up to 95% RH (without condensation)
- ▣ EMC: conforms to EC



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