



Meinberg Radio Clocks

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LANTIME M300: NTP Time Server in 1U Case for Server Rackmount

[1] The Meinberg LANTIME M300 time server provides accurate time to networks of any size. It synchronizes all systems either NTP- or SNTP-compatible and itself is synchronized by any external Meinberg radio clock.

Key Features

- Available Reference Sources:
 - * [2]GPS: Satellite receiver for the Global Positioning System
 - * [3]GLN: GLONASS Satellite receiver
 - * [4] MGR: GPS Satellite receiver for mobile applications
 - * [5]PZF: DCF77 correlation receiver for middle europe
 - * [6] MSF: Long wave receiver for Great Britain
 - * [7] WWVB: Long wave receiver for the US time signal
 - * [8] TCR: Time code receiver for IRIG A/B, AFNOR or IEEE1344 codes
 - * MRS (GPS, PPS, 10MHz, PTP, NTP): Multi Reference Source several reference sources, adjustable following priority of signal
 - * RDT (external PPS or NTP): Time Server without internal receiver module
- Synchronization of NTP and SNTP compatible clients
- Web based status and configuration interface [9](Demo) and console based graphical configuration utility
- Supported net protocols: IPv4, IPv6, NTP, (S)NTP, DAYTIME, DHCP, HTTP, HTTPS, FTP, SSH, SCP, SYSLOG, SNMP, TIME, TELNET
- Alert-Notification system of status change by Email, WinMail, SNMP or an external connected display
- Full SNMP v1,v2,v3 support with own SNMP-daemon for status and configuration and SNMP Trap messages
- USB Port for installing firmware updates, locking frontpanel menu access and backup/restore of



- configuration and log files
- Antenna connected with up to 300m of standard coaxial cable RG58
- Our LANTIME time server can be provided with a large number of additional output options: IRIG Time Code, frequency synthesizer and programmable pulse outputs are only a few of the many expansion options for your NTP server.
- Two (standard) or optional up to six independant RJ-45 ethernet interfaces 10/100 MBit

Description

A large display shows the state of the NTP subsystem.

The configuration of the system can be done by using a standard web browser to access the extensive but straightforward html interface. Alternatively a text based and menu driven setup utility can be started from the shell prompt after logging into the unit via Telnet or SSH.

Because of its modular system architecture it is possible to equip a LANTIME time server with up to two additional ethernet ports, even fiber optic network ports and one or three Gigabit Ethernet ports are available as an option.

Characteristics

Display	LC-display, 2 x 40 characters, with backlight
Control elements	Eight push buttons to set up basic network parameters and to change receiver settings
Status info	Four bicolor LEDs showing status of: - reference time - time service - network - alarm
Frequency outputs	10 MHz via female BNC connector, TTL into 50 Ohm Accuracy depends on oscillator (standard: TCXO), look at [10]oscillator options
Pulse outputs	Pulse Per Second (PPS), TTL level, pulse width: 200ms
Accuracy of pulse outputs	Depends on oscillator option: < ±100ns (OCXO MQ, OCXO HQ, OCXO DHQ)
Interface	Two independent serial RS232-interfaces, menu configurable (in case of RDT models without internal receiver - the serial interfaces will be used as reference input).
Optional Output Signals	Additional Output Options:: The LANTIME M300 comes with many additional outputs options: PPS, 10MHz, programmable pulse outputs (PPS, PPM, PPH, DCF_MARK), IRIG modulated and unmodulated time code, T1 / E1 telecom signals, Frequency Synthesizer - to name just a few. Contact us for your specific device configuration.
Network Interface	Standard: 2 x 10/100 MBit with RJ45 connector
	Available Options:
	* 2 x additional 10/100 MBit with RJ45
	* 1 x 10/100 MBit and 1 x 10/100/1000 MBit (1GE) with RJ45 or 1 x 10/100 MBit and 3 x 10/100/1000 MBit (3GE) with RJ45 jack



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Standard: 100-240 VAC available DC variants: 100-240 VDC, 12VDC, 24VDC and 48VDC
1x USB Port in front panel: - install firmware upgrades - backup and restore configuration files - copy security keys - lock/unlock front keys
i386 compatible 500Mhz CPU, 128 MB RAM
Linux with nano kernel (incl. PPSkit)
TCP, UDP
TELNET, FTP, SSH (incl. SFTP, SCP), HTTP, HTTPS, SYSLOG, SNMP
IP v4, IP v6
IPv4: Dynamic Host Configuration Protocol - DHCP (RFC 2131) IPv6: Autoconfiguration Networking - AUTOCONF
NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (no RFC) SNTP v3 (RFC 1769), SNTP v4 (RFC 2030) MD5 Authentication and Autokey Key Management
Time Protocol (RFC 868)
Daytime Protocol (RFC 867)
Synchronization of IEC 61850 compliant devices by using SNTP
HTTP/HTTPS (RC 2616)



SSH v1.3, SSH v1.5, SSH v2 (OpenSSH)
Telnet (RFC 854-RFC 861)
SNMPv1 (RFC 1157), SNMPv2c (RFC 1901-1908), SNMP v3 (RFC 3411-3418)
19" aluminium case (1U) Schroff Multipac
0 50°C / 32 122°F
Max. 85%
Included in delivery is a MEINBERG outdoor antenna incl. mounting kit, pre-assembled antenna cable (except MRS, TCR and RDT models) and product documentation on USB storage.
Meinberg offers free lifetime technical support via telephone or e-mail.
Three-Year Warranty
Firmware is field-upgradeable, updates can be installed directly at the unit or via a remote network connection. Software updates are provided free of charge, for the lifetime of your Meinberg product.
This product is fully RoHS compliant
This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.
Additional information about the Meinberg LANTIME family of NTP time servers and other LANTIME models can be found on the [11]LANTIME NTP Time Server Family

Manual

There is no online manual available for this product: [12]Contact us

Links:

- [1] http://www.meinberg.de/english/products/
- [2] http://www.meinberg.de/english/products/
- [3] http://www.meinberg.de/english/products/
- [4] http://www.meinberg.de/english/products/
- [5] http://www.meinberg.de/english/products/
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