Meinberg Radio Clocks
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LANTIME/GPS: Network Time Server with integrated GPS receiver

A complete solution for synchronizing large networks. The LANTIME GPS Network Time Server combines a GPS based radio clock with an embedded Linux computer and offers numerous ways for configuration and management (via HTTP, HTTPS, Telnet, SSH, SNMP) and a flexible event messaging system, with which the administrator can be alerted immediatly whenever an interesting or critical event occurs (via mail (SMTP), winpopup messages, SNMP traps, syslog entries and - optionally - a wall mount display).

Key Features

- "Ready-to-operate" Secure NTP Time Server
- Up to 3 independent RJ-45 ethernet interfaces 10/100 MBit
- Support for NTP v2, NTP v3, NTP v4
- Up to 3 additional external time sources adjustable
- PPS, PPM and 10MHz output
- Advanced security protocols for authentication (MD5, Autokey, Groupkey, HTTP certificate, SSH key)
- Daily and total statistics of time synchronization and additional ntp access log statistics available
- USB port in the front panel to perform updates, to authenticate, save configuration and log files.
- Upgradable flash memory
- Web based status and configuration interface [1](Demo) and console based graphical configuration utility
- 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
- Antenna connected with up to 250m of standard coaxial cable RG58
- Front Panel Elements for Setup and Status Monitoring
- Supported net protocols: IPv4, IPv6, DAYTIME, DHCP, HTTP, HTTPS, FTP, SAMBA, SFTP, SSH, SCP, SYSLOG, SNMP, TIME, TELNET, W32TIME
- [2]NTP Display ANZ14LAN or [3]NTP Slave Clock VP100/20NET connectable via network
- 2 years warranty

Description

The Meinberg LANTIME is a standalone "ready-to-run" NTP time server for TCP/IP networks, which comes with numerous possibities for management and configuration: web interface (HTTP/HTTPS), text based setup (TELNET/SSH) and SNMP. To transfer files (e.g. Firmware-updates) to and from the device, FTP or SFTP/SCP can be used.

The IP address of the unit can be initially configured by using the front panel buttons. Alternatively, an integrated DHCP client allows assigning an IP address automatically. A huge display shows run-time informations for both the GPS subsystem and the NTP server.

The LANTIME can handle more than 1500 NTP requests per second, making it the first choice for providing accurate time information to large network with thousands of clients.

When developing the newest version, the main focus was on improvement of stability and security. Not only dealing with symmetric keys, the LANTIME NTP server is also capable of using the autokey feature of NTP v4, providing the administrator with an easy way to maintain a reliable time source for large networks.

Of course the LANTIME comes with the typical flexibility of a Meinberg product, which means a broad range of options and possible customizations, which can meet even very special requirements.

If you need additional features or other reference time sources, please check out the other available LANTIME variants.

Characteristics

Type of receiver	Built-in [4]GPS receiver GPS167 for worldwide operation.
Housing	19'' aluminium case (1U) Schroff Multipac
Display	LC-display, 2 x 40 characters, with backlight
Scope of supply	The system will be delivered inclusive of [5]GPS antenna/converter unit, mounting kit and 20m coax-cable RG58.
Input signal	IRIG-A/B signal, the potential free input is terminated in 50 Ohms
Network Interface	RJ-45 Network Connection 10/100 MBit
Power supply	85 ... 264V, 47 ... 63Hz
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Options	[6] IRIG A/B Time Code Generator TCG510

Manual

The english manual is available as a PDF file: [7]Download (PDF)

Links:

[1] http://www.meinberg.de/english/products/../../cgi-bin/main.cgi
[2] http://www.meinberg.de/english/products/anz14.htm
[3] http://www.meinberg.de/english/products/vp100.htm
[4] http://www.meinberg.de/english/products/gps167.htm
[5] http://www.meinberg.de/english/products/gpsant.htm
[6] http://www.meinberg.de/english/products/tcg510.htm
[7] http://www.meinberg.de/download/docs/manuals/english/1he_langps_etx_v4.pdf