

LANTIME M200/PZF

Compact NTP Time Server with integrated DCF77 Reference Clock



The M200/PZF is an economical Time Server that offers all the software features of Meinberg's LANTIME platform. It is available in a compact housing as a desktop model, and with an optional accessory kit for rackmount installations.

The M200/PZF includes a precision TCXO and one network interface and is the perfect choice for „Just NTP“ applications in small and medium sized networks.

Quick Network Installation

The M200/PZF is designed for easy network installation with only a few keystrokes needed on the front panel.

A large LC display shows the status of the internal DCF77 receiver and the NTP subsystem. Three bicolor LEDs indicate the status of the three main components: PZF Reference Time, Time Synchronization Service (NTP) and Network (Link status). A fourth ALARM LED can be configured to signal any event that is reported by the notification handling routines.

<http://www-preview/english/products/lanime-m200-pzf.htm>

Key Features:

- Synchronization of NTP and SNTP compatible clients
- Web based status and configuration interface and console based graphical configuration utility
- Supported networking protocols: IPv4, IPv6, HTTPS, HTTP, SSH, TELNET, SCP, SFTP, FTP, SYSLOG, SNMP
- USB port for performing updates, lock front panel and backup/restore configuration and log files.
- Antenna connected with up to 300m of standard coaxial cable RG58

Description:

The GNU/Linux operating system of the LANTIMEs SBC (Single Board Computer) has been optimized to ensure a high level of security and reliability.

The configuration of the system can be done by using a standard web browser for accessing 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.

The security-related features of LANTIME time servers satisfy highest demands. The time synchronization data can be reliably signed and secured by symmetric keys (MD5) and the NTP autokey procedures. This protects the clients against manipulated time and man-in-the-middle attacks and allows them to verify that the NTP packets they received were sent by the LANTIME. Additionally the whole LANTIME configuration can be done by using encrypted channels (e.g. SSH, HTTPS or SNMPv3). Every unused/unneeded protocol can be disabled in order to reduce possible points of attack.

In order to support network management systems the LANTIME time servers offer an extensive SNMP interface, which can be accessed by SNMP V1, V2.c and V3. It allows the monitoring of all relevant system parameters (including operating system parameters, network interface statistics, detailed GPS and NTP status information as well as the complete system configuration) and can be used to alter the LANTIME configuration via SNMP set commands, too.

LANTIME time servers are designed to be deployed in IPv6 networks, the NTP time synchronization as well as the configuration interfaces (Web-based, SSH and SNMP) comes with IPv6 support. You can assign several IPv6 addresses and the system supports automatic configuration by IPv6 autoconf.

The LANTIME M200/PZF is equipped with a high precision „TCXO“ oscillator. The oscillator determines the holdover characteristics (e.g. when the DCF77 signal is disturbed or jammed)

- Three-Year Warranty
- Lifetime technical support via telephone or E-Mail including Firmware Updates

LANTIME M200/PZF Specifications



Front Panel:

- 1 x LC display, 40 character x 2 rows
- 4 x Status LEDs

Rear Panel:

- 1 x RS232 interface (rear panel), 9pin D-Sub male connector for VT100 terminal
- 1 x USB (Rev. 1.1) connector for
 - performing updates,
 - lock front panel and
 - backup/restore configuration and log files.

Network Interface:

- 1 x LAN interface, RJ45 connector with Link-/Activity/Speed LEDs

Synchronization Source Input:

- 1 x Meinberg DCF77 antenna input, BNC female connector, isolated



DCF77 Antenna AW02 with mounting kit

System Components:

- DCF77 PZF correlation receiver PZF511
- TCXO time base
- Single board computer with Linux operating system
 - NTPv4, SNTP, symmetric Keys, Autokey, Broadcast,
 - SNMPv1,2,3, SNMP Trap, SSH2, IPv6, DHCP,
 - HTTP(S), eMail, FTP, Telnet, Syslog
- Power supply: 100-240 VAC
(also available in different DC variants)
- Metal desktop chassis, 1U/63HP, slimline
335 mm wide x 43 mm high x 250 mm deep

Scope of Supply:

Each LANTIME M200/PZF will be delivered with a MEINBERG DCF77 Antenna mounted in a waterproof plastic case, antenna mounting kit, 10 m (32.8 feet) of RG58 coax cable and power cord.

Optional:

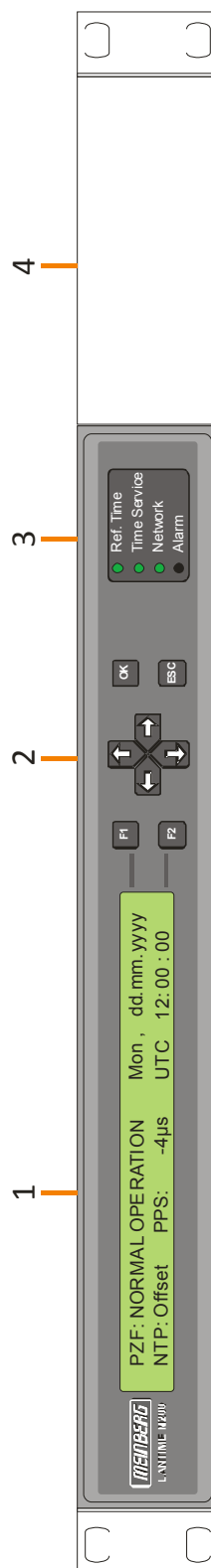
- 19" Rackmount kit



Package dimensions:

60 cm x 40,5 cm x 27 cm / approx. gross weight per box: 8.5 kg.
(23.6 inch x 15.9 inch x 10.6 inch /
approx. gross weight per box: 18.7 pound).

Front View



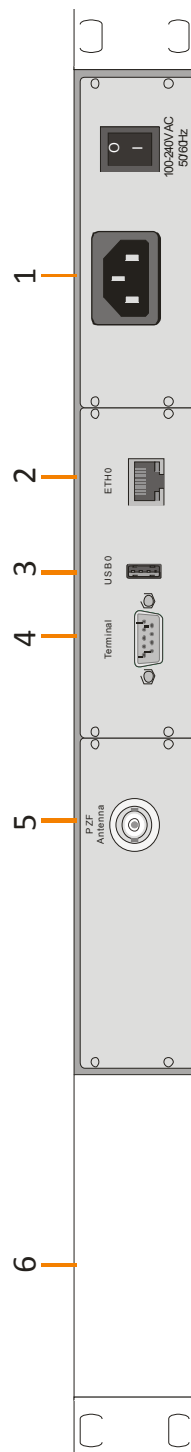
English

1. LCD Display
2. Function buttons: 4-way navigation button; F1, F2, OK, ESC
3. Status LEDs: Ref. Time, Time Service, Network, Alarm
4. Optional brackets for rack mount installations

Deutsch

1. LCD Display
2. Funktionstasten: 4-Wege Navigationstasten; F1, F2, OK, ESC
3. Status LEDs: Ref. Time, Time Service, Network, Alarm
4. Optional erhältliche Einbauwinkel zur 19" Rackmontage

Rear View



English

1. Power supply connector (AC or DC; see chapter power supply)
2. Network connector ETH0 10/100 Mbit RJ45.
3. USB connector
4. Serial COM port, RS232 Time String output
5. PZF - Antenna, BNC
6. 19" Mounting Rack

Deutsch

1. Stromversorgungseingang (AC oder DC; siehe Abschnitt Netzteil)
2. Netzwerk Anschluss ETH0 10/100Mbit RJ45
3. USB Anschluss
4. serielle Schnittstelle, RS232 Ausgang
5. PZF-Antenne, BNC
6. 19" Befestigungs kit