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SyncFire 1200: High-Performance NTP Time Server

The Meinberg SyncFire 1200 NTP time server offers the flexibility and reliability of the Meinberg LANTIME M-series in a completely new design. It has been optimized for data center use and can synchronize more than hundreds of thousand NTP and SNTP clients.

Important Note

This product is no longer available. We will of course continue to provide support for units that have already been purchased and are still in use. Please contact our [1][Sales Team](#) for further details.

This product has been discontinued and has been replaced with: [2]

Key Features

- Selectable Reference Sources: GPS: Satellite receiver for the Global Positioning System GNS: Combined GPS/GLONASS/Galileo/BeiDou satellite receiver, can also be used for mobile applications
- 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
- Alert-Notification system of status change by Email, WinMail, SNMP or an external connected display
- Full support for SNMP v1, v2c und v3 with dedicated SNMP daemon for configuring/status monitoring of system using SNMP traps
- Included GPSANTv2 antenna uses downconverter technology to enable long transmission routes of up to 1100 m (1200 yards) -- with Ultraflex H2010 cable
- SyncFire 1200 can be configured to operate in Cluster mode
- Up to twelve discrete physical Ethernet interfaces (RJ45, 1000BASE-T)
- Max. supported NTP requests/second Multi-Core-NTP: up to 1,000,000 Multi Threading Support developed by Meinberg

Description

The SyncFire 1200 is a powerful and reliable NTP Time Server offering the great features and reliability of Meinberg LANTIME products in a 1U server chassis with unprecedented power. The redundant, hot-pluggable power supplies and system fans ensure a 24/7 operation. The ability to add a second GPS or a combined GPS/GLONASS/Galileo/BeiDou receiver as a redundant reference time source and the capability to create redundant network links by assigning multiple LAN interfaces to a high availability bonding group provide an unmatched level of reliability. The new SyncFire 1200 can be ordered with an AMD® EPYC® 7262 (8-Core, 3.2 GHz) CPU. The standard configuration offers four Gigabit interfaces, the number of physical interfaces can be increased to a maximum of eight network ports.

A Meinberg SyncFire 1200 can handle an unmatched number of NTP requests per second, making it one of the most powerful, versatile, and reliable NTP appliance on the market and the perfect fit for high-performance NTP requirements, for example synchronization of Femtocell Access Points or other CPEs, VOD Set Top Boxes or when an Internet NTP server has to be provided for a large number of SNTP or NTP capable end devices.

Characteristics

Operating System	LTOS V7.02 or newer
Receiver Type	12 channel GPS C/A-code receiver
Status Indicators	Four bicolor LEDs indicating: - Reference time status - Time service status - Network link status - Alarm states
Type of Antenna	Included [3] GPSANTv2 antenna with innovative downconverter technology that allows transmission routes of up to 300 m using RG58 cable, 700 m using RG213 cable, and 1100 m using H2010 Ultraflex cable
Display	LCD panel, 4 x 20 characters
Control Elements	Eight push buttons to set up basic network parameters and to change receiver settings
Network Interface	Standard: 4 x 10/100/1000 MBit with RJ45 connector Available Options: * Additional network interface card with 4 x 10/100/1000 MBit - RJ45 jack or 2-port 10 Gb Ethernet Adapter (RJ45/SFP) 2-port 10/25 Gb Ethernet Adapter (SFP)
Operating Voltage	Redundant power supply (hot-plug power supply unit) Nominal Voltage Range: 100-240 V AC Frequency Range: 50-60 Hz Maximum Output: 500 W Nominal Input Current: 2.3 A (100 V AC) / 5.6 A (240 V AC)

Form Factor	19 Inch Server Rack 1HE/84TE 431 mm x 718 mm x 43 mm (W x D x H)
CPU	AMD® EPYC® 7262 (8-Core, 3.2 GHz, 155 W)
Network Protocols OSI Layer 4 (Transport Layer)	TCP, UDP
Network Protocols OSI Layer 7 (Application Layer)	Telnet, FTP, SSH (including SFTP, SCP), HTTP, HTTPS, syslog, SNMP
Internet Protocol (IP)	IPv4, IPv6
Network Autoconfiguration Support	IPv4: Dynamic Host Configuration Protocol - DHCP (RFC 2131) IPv6: Dynamic Host Configuration Protocol - DHCPv6 (RFC 3315) and Autoconfiguration Networking - AUTOCONF (RFC 2462)
Network Time Protocol (NTP)	NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (RFC 5905) SNTP v3 (RFC 1769), SNTP v4 (RFC 4330) MD5 / SHA-1 Authentication and Autokey Key Management
Time Protocol (TIME)	Time Protocol (RFC 868)
IEC 61850	Synchronization of IEC 61850-compliant devices using SNTP
Hypertext Transfer Protocol (HTTP)	HTTP/HTTPS (RC 2616)
Secure Shell (SSH)	SSH v1.3, SSH v1.5, SSH v2 (OpenSSH)
Telnet	Telnet (RFC 854-RFC 861)
Simple Network Management Protocol (SNMP)	SNMPv1 (RFC 1157), SNMPv2c (RFC 1901-1908), SNMP v3 (RFC 3411-3418)
Supported Temperature	10 °C to 35 °C (50 to 95 °F)
Supported Humidity	10% ... 85%
Contents of Shipment	Included in delivery is our [3] GPS antenna incl. converter unit and 20 m GPS antenna cable (RG58).
Technical Support	Meinberg offers free lifetime technical support via telephone or e-mail.
Warranty	Three-year warranty
Firmware Updates	Firmware is field-upgradeable, updates can be installed directly from the unit or via a remote network connection. Software updates are provided free of charge for the lifetime of your Meinberg product.

RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.
Additional Information	Further information on the Meinberg range of LANTIME NTP time servers and other LANTIME models can be found on the [4]LANTIME overview page. Note: The SyncFire cannot be operated as a general-purpose server. It is designed to operate exclusively as a high-performance NTP server and does not support the installation of a standard operating system for general-purpose server applications.

Manual

There is no online manual available for this product.: [5][Contact us](#)

Links:

[1] <mailto:sales@meinberg.de>

[2] <https://www.meinbergglobal.com/english/archive/sync-fire-1500.htm>

[3] <https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm>

[4] <https://www.meinbergglobal.com/english/products/ntp-time-server.htm>

[5] <mailto:info@meinberg.de>