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SyncFire 1100: High-Performance NTP Time Server

The Meinberg SyncFire 1100 NTP Time Server appliance offers the flexibility and reliability of the Meinberg LANTIME M-Series Product Family in a new package that is optimized for Data Center deployments. Due to its new powerful CPU options, it can synchronize millions of NTP and SNTP clients.

Important Note

This product is no longer available and may have been replaced by a newer product. 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 Department 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 GLN: Combined GPS/GLONASS 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)
- Up to six independent RJ-45 ethernet interfaces 10/100/1000 MBit/s
- Max. supported NTP requests/second Multi-Core-NTP: up to 1,000,000 Multi Threading Support developed by Meinberg

Description

The redundant, hot-pluggable power supplies and system fans ensure a 24/7 operation, 365 days a year with no or minimal downtime for repair in case of a hardware failure. The ability to add a second GPS receiver or combined GPS/GLONASS receiver for a redundant reference time source plus the capability to form redundant network links by assigning multiple LAN interfaces to a high availability bonding group provide an unmatched level of reliability.

The new SF1100 can be ordered with one of two CPU options: the 1.9GHz Quadcore Intel Xeon CPU or the 2.6GHz Octacore Intel Xeon CPU with Hyperthreading. The standard configuration offers two Gigabit interfaces, quad port Gigabit Ethernet or a dual port 10GE/SFP+ expansion cards can increase the number of physical interfaces to a maximum of 2x1GE+4x10GE or 10x1GE ports.

Depending on the selected CPU option and the number of physical network interfaces, a Meinberg SyncFire 1100 can handle up to 750,000 NTP requests per second. This makes the Meinberg SyncFire 1100 one of the world

Characteristics

Operating System	Linux 4.x SMP
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:** 2 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 x 10000 MBit - SFP+
Operating Voltage	**Redundant power supply (hot-plug power supply unit)** Rated voltage range: 100 - 240 V AC Frequency: 50 / 60Hz Effective power: 450 W Rated current: 8.5 A (100 V) / 3.5 A (240 V)

Form Factor	19 Inch Server Rack 1HE/84TE 431 mm x 718 mm x 43 mm (W x D x H)
CPU	1.9 GHz Intel® Xeon® Quadcore or 2.6 GHz Intel® Xeon® Octacore with HyperThreading® 8GB RAM, Diskless/Flash Memory Module
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/products/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