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microSyncRX: Powerful IEEE 1588 PTP Grandmaster and NTP Server in a 19 inch Rackmount Enclosure

[1]

Meinberg's versatile synchronization solution with redundant power supply, a reliable and universal sync solution for a large range of different industries and applications.

Meinberg's microSyncRX is a feature-rich synchronization devices, offering a high level of efficiency and versatility and impresses with high port density and optional redundant power supplies.

Key Features

- Selectable Reference Time Sources: GPS: Satellite receiver for the Global Positioning System GNS: Combined GPS/GLONASS/Galileo/BeiDou satellite receiver (L1 frequency band), can also be used for mobile applications GNS-UC: GPS and Galileo Satellite Receiver with Up-Converter for Meinberg GPS Antenna/Converter
- High Performance NTP Server (NTP & SNTP v2, v3, v4)
- Meinberg Device Manager for configuration and status monitoring
- IEEE 1588 PTP time server incl. IEC/IEEE 61850-9-3 & IEEE C.37.238
- Redundant power supply with AC or DC voltage
- Different oscillator options for advanced holdover performance
- Option: OLED display with rotary knob for initial setup
- All microSync models offer a wide range of multiple output signals, allowing synchronization of both network devices such as NTP clients and PTP slaves as well as directly attached synchronization clients with other electrical and optical signals.

Description

Providing two IEEE 1588 ports, the microSyncRX models are powerful GNSS synchronized PTP Grandmasters offering a high level of accuracy and supporting all major PTP profiles: Default, Power, Telecom (Frequency and Phase profiles), SMPTE, AES67/RAVENNA or IEEE 802.1AS profile.

All microSyncRX variants offer key features like multiple programmable output signals (two over fiber optical ST connectors), four Gigabit Ethernet interfaces and the ability to synchronize both NTP and PTP devices.

The sheer diversity of outputs and interfaces allows the microSyncRX to be deployed in a large range of industries and applications. Depending on industry requirements customers can choose from different variants to best suit their needs.

The variants are defined via the BNC connectors which can provide several I/O options.

For further information, please check out our datasheet:

Datasheet microSyncRX-Series (PDF)

Characteristics

Supported PTP Profiles	**Default:** - IEEE 1588v2 (PTPv2) **Power:** - IEC/IEEE 61850-9-3 - IEEE C37.238-2011 - IEEE C37.238-2017 **Telecom:** - ITU-T G.8265.1 Frequency - ITU-T G.8275.1 Phase/Time - ITU-T G.8275.2 Phase/Time - DOCSIS 3.1 **Broadcast:** - SMPTE ST 2059-2 - AES67 Media Profile **AVB/TSN:** - IEEE 802.1AS
Synchronous Ethernet	Master and Slave Capability Compliant to ITU-T G.8261, G.8262 and G.8264 Ethernet Synchronization Messaging Channel (ESMC)

Display	**OLED Display Option**
	Functions (system adiministration):
	* IP Address
	* Netmask
	* Gateway
	* DHCP
	Indication:
	* Time and Date
	* Status of synchronization source:
	* Firmware version
	* Model and serial number

Network Protocols	IPv4, IPv6
	NTPv3, NTPv4
	PTPv2
	IEC 62439-3 (PRP)
	DHCP, DHCPv6
	DSCP
	IEEE 802.1q VLAN filtering/tagging
	IEEE 802.1p QOS
	SNMPv1/v2/v3
	Remote Syslog Support (UDP)

| **Optical Outputs** | 2 x Programmable pulse outputs, fiber optic - ST connectors |

| **Interface** | Single serial RS-232 interface |

Network Interface	**Gigabit Ethernet (GbE) - SFP:**
	LAN 0, LAN 1
	Management
	10/100/1000Mbit RJ45 or 1000FX
	NTP
	LAN 2, LAN 3
	Management
	10/100/1000Mbit RJ45 or 1000FX
	NTP / PTP

Universal Serial Bus (USB) Ports	**USB Terminal** USB-to-serial console - Micro-USB Type B **USB Host** USB connector management CPU - USB Type A
BNC Connectors	4 x BNC female connectors for different output signals - e.g. programmable pulses, frequency synthesizer, timecode AM
Terminal Connector	**16pin DMC X1** programmable pulses Error/Relay **16pin DMC X2** programmable pulse (TTL, isolated) programmable pulse (RS-422) Time Code DCLS (TTL, isolated)
Oscillator Options	OCXO SQ Holdover performance 1 day: ± 220
Power supply	Maximum voltage range: AC / DC: 90-265 V AC, 47-63 Hz / 90-250 V DC DC: 20
Power consumption	Pmax = 30W
Atmospheric Pressure	615 to 1600 hPa
Operating Altitude	Up to 4000 m (13,123 ft) above sea level
Form Factor	Housing Type: 19", 1HE 482,6 mm x 248 mm x 43 mm /19 inch x 9.76 inch x 1.69 inch (widthx depth x height) Material: Steel
Protection	IP30
Ambient temperature	- 20 °C to + 55 °C (operation)
Storage Temperature	
Humidity	5 % to 95 %, 40 °C, non-condensing
Compliances	
	* CB Scheme
	* CE
	* FCC
	* UL
	* CSA
	* WEEE, Waste of Electrical and Electronic Equipment
	* RoHS, Restriction of Hazardous Substances
	* REACH, Registration, Evaluation, Authorization and Restriction of Chemicals

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Scope of supply	Included in delivery is an outdoor antenna incl. mounting kit, pre-assembled antenna cable and product documentation on USB storage.
Warranty	Three-Year Warranty
RoHS-Status of the product	This product is fully RoHS compliant
WEEE status of the product	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.

Manual

There is no online manual available for this product: [2]Contact us

Links:

[1] https://www.meinbergglobal.com/english/products/
[2] mailto:info@meinberg.de