

Meinberg



Garanti: 12 ay
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rn	Aıklama
LANTIME M300/GPS	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna / converter unit) - 1 x 20m antenna cable RG58 (N-Norm plug / BNC plug) - 1 x power cord - 1 x accessory set (for LANTIME M300 / M600) - Specification according to the technical data sheet. HS code: 9105 9100 Country of origin: Federal Republic of Germany
Gps Av4	
M300/Gps Tcxo Ntp Time Server	komplett Set
Lantime M300/Ntp Server	
CON/TTL/FOS/HS	FO converter including the following accessories: - 1 x power supply unit (two-part set for converter - Umax. 90-264 V AC) HS code: 8543 7090 Country of origin: Federal Republic of Germany
CON/FOS/TTL/HS	FO converter including the following accessories: - 1 x plug-in power supply (two-part set for converter - Umax. 90-264 V AC)
CON/TTL/FO/HS	FO converter including the following accessories: - 1 x plug-in power supply (two-part set for converter - Umax. 90-264 V AC)
CON/FO/TTL-2/HS	FO converter including the following accessories: - 1 x plug-in power supply (two-part set for converter - Umax. 90-264 V AC)
02734070	70m antenna cable Belden H155 SMA plug / N-standard plug ***** Cable for direct connection between antenna and receiver - no extension!*****

00026194	GNSS antenna GPS / Galileo / GLONASS / Beidou
ONT4SS	NTP display NTP display with the following properties: - 4-digit 100mm high 7-segment LED display, red, for time (hh: mm) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in a brushed stainless steel case HS code: 9105 2100 Country of origin: USA
ONT4BK	NTP display NTP display with the following properties: - 4-digit 100mm high 7-segment LED display, red, for time (hh: mm) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in a powder-coated aluminum housing, black
ONT6SS	NTP display NTP display with the following properties: - 6-digit 100 / 75mm high 7-segment LED display, red, for time (hh: mm: ss) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in a brushed stainless steel case
ONT6BK	NTP display, one-sided NTP display with the following properties: - 6-digit 100 / 75mm high 7-segment LED display, red, for time (hh: mm: ss) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in a powder-coated aluminum housing, black
00260734	PoE Injector Power over Ethernet inklusive Power Cord and User Manual
LANTIME M200/PZF	NTP time server including the following accessories: - 1 x AW02 external antenna (for Meinberg DCF77 receiver) - 1 x 10m antenna cable RG58 (N-Norm plug / BNC plug) - 1 x power cord - 1 x 19 "bracket
LANTIME M1000-IMS /10012999	Modulare Synchronisationsl¼sung inkl. folgendem Zubeh¼r: - 1 x Zubeh¼rset (f¼r LANTIME M1000) - 1 x GNSS Antenne (GPS / Galileo / GLONASS / Beidou) - 1 x 20m Antennenkabel Belden H155 (SMA Stecker / N-Norm Stecker) - 2 x zweiteiliges Netzkabel Das System besteht aus den folgenden Komponenten: - 1 x IMS-M1000 Geh¼use (1HE / 84TE 19" Geh¼use mit Display) - 1 x IMS-ACM M1000 (aktive L¼ftereinheit f¼r 1HE IMS-Geh¼use) - 1 x IMS-LNE-GbE (Erweiterungskarte mit 4 x Gigabit LAN Ports) - 1 x IMS-CPU-C15G2 (LANTIME Prozessoreinheit) - 1 x IMS-CLK GNS181-HQ - 1 x IMS-MRI (Standard Referenz Eingang -TC DCLS,TC AM,PPS,10MHz) - 2 x IMS-PWR-AD10 (Netzteil Umax. 90 - 265 V AC / 90 - 250 V DC) - 1 x XHE-SPI (Rubidium Kontakt) - 1 x IMS-SPT M1000 (Standard Signalverteilung - intern verbaut) HS-Code: 9105 9100 Ursprungsland: Bundesrepublik Deutschland
	Rubidium expansion case including the following accessories: - 2 x two-piece power cord - 1 x XHE-RB connection cable for IMS systems (0.5m) The system consists of the following

XHE-RB-IMS/36008923	components: - 1 x XHE-RB housing (XHE-RB housing with LEDs and design elements) - 2 x IMS-PWR-RUB AC/DC (power supply Umax. 90-253 V AC V / 100-330 V DC) - 1 x XHE-CON AC/DC AC/DC (XHE module for AC/DC AC/DC power supplies) - 1 x Rubidium with SPI connector - 20HP (in 3U/14HP front panel) HS code: 8543 7090 Country of origin: Federal Republic of Germany
LANTIME M1000-IMS /10013167	Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x GNSS antenna (GPS / Galileo / GLONASS / Beidou) - 1 x 20m antenna cable Belden H155 (SMA connector / N standard connector) - 1 x 3-pin DFK socket (with screw lock) - 1 x 16 pin Connector DFMC - 2 x two-piece power cord The system consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 1 x IMS-LNE-GbE (expansion card with 4 x Gigabit LAN ports) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-LIU A1111 (Line Interface Unit, E1/T1gen,BITS(1/1) Clock(1/1)) - 1 x IMS-CLK GNS181-SQ - 1 x IMS-FDM180 (mains frequency 70 - 270 V AC, 50Hz or 60Hz) - 1 x IMS-MRI (Standard Reference Input - TC DCLS,TC AM,PPS,10MHz) - 2 x IMS-PWR-AD10 (power supply Umax. 90 - 265 V AC / 90 - 250 V DC) - 1 x IMS-SPT M1000 (standard signal distribution - installed internally) - Specification according to the technical data sheet. HS code: 9105 9100 Country of origin: Federal Republic of Germany
LANTIME M300/PZF/AD10 (alternative)	NTP time server including the following accessories: - 1 x AW02 outdoor antenna (for Meinberg DCF77 receiver) - 1 x 10m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600)
00026790	MBG S-PRO surge protection (Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable Belden H155 (N-Norm male / N-Norm male)
02701030	30m antenna cable RG58 N standard plug / N standard plug less HS code: 8544 2000 Country of origin: Federal Republic of Germany
00260378 LANTIME M300/GPS/TC-1-1/AD10	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 50m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) HS code: 9105 9100 Country of origin: Federal Republic of Germany
00260609	LANTIME M300/GPS/AD10 NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 30m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) - Specification according to the technical data sheet. HS code: 9105 9100 Country of origin: Federal Republic of Germany
MBG S-PRO OVER VOLTAGE	(Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N standard plug /

PROTECTION KIT	N standard plug) - Specification according to the technical data sheet.
LANTIME M300/GPS/AD10 00260609	LANTIME M300/GPS/AD10 NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) - Specification according to technical data sheet - With a power adapter: 100-200V DC / 100-240V AC HS code: 9105 9100 Country of origin: Federal Republic of Germany
LANTIME M300/GPS/AD10-AD10 00260775	LANTIME M300/GPS/AD10-AD10 NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 2 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) - Specification according to technical data sheet - With redundant power supplies: 100-200 V DC / 100-240 V AC HS code: 9105 9100 Country of origin: Federal Republic of Germany
LANTIME M300/GPS/AD10. 00260609	LANTIME M300/GPS/AD10 NTP time server minus including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) HS code: 9105 9100 Country of origin: Federal Republic of Germany
Lantime M300 Ntp Network Time Server	
LANTIME M300/GPS/AD10	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) - Specification according to the technical data sheet. HS code: 9105 9100 Country of origin: Federal Republic of Germany
LANTIME M320/GPS/AD10 (00262084)	
CON/TTL/FOS/HS	Part Nr. 00260217 fiber optic converter including the following accessories: -1 x plug-in power supply (two-part set for converter - Umax. 90-264 V AC) TTL In (BNC) to 1x FO Out (ST) – single mode
CON/FOS/TTL/HS	Part Nr. 00260147 fiber optic converter including the following accessories: - 1 x plug-in power supply (two-part set for converter - Umax. 90-264 V AC) FO In (ST) to 2x TTL Out (BNC) – single mode
00m Antennenkabel Rg58	
100m Antenna cable RG58	N standard plug / BNC plug
M320	
	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME

LANTIME M320/GPS/3GE/AD10 (00262121)	M300/M600) Power Supply: 100-240V AC / 100-200V DC (easily replaceable) signal output: 1 x LAN interface 10/100 MBit, RJ45 connector 3 x LAN interface 10/100/1000 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats time strings. 1 x PPS, TTL into 50 ohms, pulse duration 200 msec, active high, female BNC connector 1 x standard frequency 10 MHz, TTL into 50 ohms, female BNC connector 1 x Alarm Relay Output, change-over contact, 3-pin DFK connector HS code: 9105 9100 Country of origin: Federal Republic of Germany
LANTIME M1000-IMS /10013837	Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x two-piece power cord The system consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 1 x IMS-LNE-GbE (expansion card with 4 x Gigabit LAN ports) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-BPE-8700 - 1 x IMS-CLK GPS182-SQ - 1 x IMS-PWR-AD10 (power supply Umax. 90 - 265 V AC / 90 - 250 V DC) - 1 x IMS-SPT M1000 (standard signal distribution - installed internally) - Specification according to the technical data sheet. HS code: 9105 9100 Country of origin: Federal Republic of Germany
MEINBERG LANTIME M300/GPS	
MEINBERG MBG S-PRO: Protector contra sobretensione	
MEINBERG Cable RG58: Cable RG58 para conectar la a	
00026790 (alternatif aksesuar)	MBG S-PRO surge protection (Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N standard plug / N standard plug)
ANZ14/NET/DC24	9 - 36 V DC including the following accessories: - 1 x ANZ14/DIS14 screw set - 1 x 3-pin DFK socket (with screw lock)
LANTIME M320/GPS/AD10 (00262084)	NTP Zeitserver inkl. folgendem Zubeh¼r: - 1 x GPSANT HF2020 (GPS Antennen-/Converterereinheit) - 1 x 20m Antennenkabel RG58 (N-Norm Stecker / BNC Stecker) - 1 x zweiteiliges Netzkabel - 1 x Zubeh¼rset (f¼r LANTIME M300/M600) Power Supply: 100-240 V AC / 100-200 V DC (easily replaceable) Signal Outputs: 2 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats timestrings. 1 x PPS, TTL into 50 ohm, pulse duration 200 msec, active high, female BNC connector 1 x Standard Frequency 10 MHz, TTL into 50 ohm, female BNC connector 1 x Alarm Relay Output, change-over contact, 3pin DFK connector
LANTIME M320/GPS/2LNE/AD10	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME

<p>LANTIME M320/GPS/AD10 (00262084)</p>	<p>M300/M600)</p> <p>NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) Power Supply: 100-240V AC / 100-200V DC (easily replaceable) signal output: 2 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats time strings. 1 x PPS, TTL into 50 ohms, pulse duration 200 msec, active high, female BNC connector 1 x standard frequency 10 MHz, TTL into 50 ohms, female BNC connector 1 x Alarm Relay Output, change-over contact, 3-pin DFK connector</p>
<p>LANTIME M320/GPS/2LNE/AD10 (00262130)</p>	<p>NTP time server including the following accessories: 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600)</p>
<p>LANTIME M1000-IMS /10013500</p>	<p>ANTIME M1000-IMS Modular Synchronisation Platform including the following accessories: - 1 x GPSANT HF2020 (GPS antenna- / converter unit) - 1 x 50m antenna cable RG58 (N-Norm male / BNC male) - 1 x two part power cable kit - 1 x Accessory-kit (for LANTIME M1000) Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x 50m antenna cable RG58 (N standard plug / BNC plug) - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x two-piece power cord The system consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 2 x IMS-LNE-GbE (expansion card with 4 x Gigabit LAN ports) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-CLK GPS182-SQ - 1 x IMS-PWR-AD10 (power supply Umax. 90 - 265 V AC / 90 - 250 V</p>
<p>MBG S-PRO surge protection</p>	<p>(Typ: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N standard plug / N standard plug)</p>
<p>LANTIME M320/GPS/LNE/TC-1-1/AD10 (00262110)</p>	<p>NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) Power Supply: 100-240V AC / 100-200V DC (easily replaceable) signal output: 4 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats time strings. 1 x PPS, TTL into 50 ohms, pulse duration 200 msec, active high, female BNC connector 1 x standard frequency 10 MHz, TTL into 50 ohms, female BNC connector 1 x Alarm Relay Output, change-over contact, 3-pin DFK connector 1 x Time Code AM, amplitude modulated sinewave output via female BNC connector 1 x Time Code DCLS, Pulse-width modulated output via female BNC connector</p>
<p>Including GPS antenna/converter and 20</p>	<p>cable</p>

m_RG58_coax	
M300/GPS	Including GPS antenna/converter and 20 m RG58 coax cable
M300/GPS/AD10 (262084)	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600) Power Supply: 100-240V AC / 100-200V DC (easily replaceable) signal output: 2 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats time strings. 1 x PPS, TTL into 50 ohms, pulse duration 200 msec, active high, female BNC connector 1 x standard frequency 10 MHz, TTL into 50 ohms, female BNC connector 1 x Alarm Relay Output, change-over contact, 3-pin DFK connector
MBG-S-PRO MBG S-PRO: Protector contra sobretension	
Cable-RG58	Cable RG58: Cable RG58 para conectar la antena GPS
LANTIME M1000-IMS /10015206	Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x two-piece power cord The system consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-CLK GPS183-SQ - 1 x IMS-PWR-AD10 (power supply Umax. 90 - 265 V AC / 90 - 250 V DC) - 1 x IMS-SPT M1000 (standard signal distribution - installed internally)
00261916	SFP Modul GB-GE-T/RJ-45 10/100/1000BASE-T SFP RJ-45, Copper
IMS-HPS100	00027074 PL-B: 256 Clients PTP / SyncE / Hardware NTP Schnittstelle
LANTIME M320/GPS/AD10 (00262084)	NTP time server - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600)
IMS M1000	Time Distributor
0.565.150.000.021	MEASURE AM+
LANTIME M320/GPS/AD10 (00262084).	NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-type connector / BNC connector) - 1 x two-part power cable - 1 x accessory set (for LANTIME M300/M320)
M300/Gps NTP GPS 2Port	
LANTIME M250/GPS/AD (00262109)	including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 1 x 19" bracket - 1 x Two-piece

[LANTIME M250/GPS/AD \(00262109\)](#)

power cord - Specification according to technical data sheet.
Power supply: 100-200V DC / 100-240V AC
including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 1 x 19" bracket - 1 x Two-piece power cord - Specification according to technical data sheet.
Power supply: 100-200V DC / 100-240V AC

[LANTIME M320/MRS/LNE/TC-1-1/PPM-1/FSS-1/AD10](#)

Ref. 23092804 NTP time server with ultra-stable integrated oscillator OCXO-HQ *) and Intelligent Reference Selection Algorithm (IRSA) Intelligent switching between available synchronization sources: GPS, Time Code (e.g. IRIG-B), Pulse Per Second (PPS), 10MHz or external NTP servers. 4 x LAN interface 10/100 MBit, RJ45 connector 1 x Terminal RS232 interface, 9pin D-Sub male connector for initial setup and configuration 1 x USB Service interface 1 x LC-Display (2 x 40 characters) and 8 push buttons ----- Reference
Inputs: 1 x Meinberg GPS antenna input, BNC connector, isolated 1 x PPS input, TTL, pulse duration $\geq 5\mu s$, active high, female BNC connector 1 x 10 MHz input, sine (1.5Vpp - 5Vpp) or TTL, female BNC connector 1 x Time Code modulated input, BNC connector, isolated by transformer Insulation voltage 3000 VDC Input impedance: 50 Ohm, 600 Ohm, 5 kOhm Internally selectable by jumper (default 600 Ohm) Input signal : 600mV to 8 V (Mark, peak-to-peak) 1 x Time Code unmodulated input, BNC connector, isolated by opto-coupler Insulation voltage : 3750 Vrms Internal series resistor : 330 Ohm, Max. input current : 25 mA Diode forward voltage : 1.0 V...1.3 V selectable Time Code Inputs, modulated / unmodulated (DCLS): B122/123 / B002/003 B126/127 / B006/007 IEEE1344 (modulated and DCLS) AFNOR NFS 87-500 (modulated and DCLS) -----
Outputs: 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats timestrings. 1 x PPS, TTL into 50 ohm, pulse duration 200 msec, active high, female BNC connector 1 x Standard Frequency 10 MHz, TTL into 50 ohm, female BNC connector 1 x Alarm Relay Output, change-over contact, 3pin DFK connector 1 x Time Code AM, amplitude modulated sinewave output (e.g. IRIG-B12x) , 3 Vpp into 50 ohm, via female BNC connector 1 x Time Code DCLS, Pulse-width modulated output (e.g. IRIG-B00x), TTL active high, via female BNC connector (AM and DCLS Time Code signals are generated in parallel) additionally Time Codes available: IEEE1344 und AFNOR NFS 87-500. 1 x PPM, TTL into 50 ohm, pulse duration 200 msec, active high, female BNC connector 1 x Synthesizer for frequencies from 0,1 Hz up to 10 MHz, TTL into 50 ohm, female BNC connector -----
----- Technical specifications: Power supply: Unom: 100-200 V DC / 100-240 V AC (50-60 Hz) // Umax: 90-250 V DC / 90-265 V AC (50-60 Hz)AC (50-60 Hz) Power consumption: max. 30 W 19" metal chassis, 1 U/84 HP (483 mm wide x 43 mm high x 285 mm deep) -----
Scope of supply: The system will be delivered inclusive of GPS/Converter outdoor antenna, mounting kit and 100m

	coax-cable (RG58).
microSync RX101SQ/AD10-AD10	<p>03400047 GPS NTP/PTP time server - Performance Level LAN2: PL-A (8 clients) - Performance Level LAN3: PL-A (8 clients) including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 2 x two-piece power cable - 1 x accessory set (for microSync RX) HS code: 9105 9100 Country of origin: Federal Republic of Germany The microSync can be used both as an NTP time server and as a PTP Grandmaster. LAN0 and LAN1 are NTP ports, LAN2 and LAN3 of the microSync are available with different PTP performance levels. Performance Level A (8 clients) is the standard, upgrades are calculated as follows: - Performance Level LAN2: PL-B: 256 clients = EUR 398.00 - Performance Level LAN2: PL-C: 512 clients = EUR 1,062.-- - Performance Level LAN3: PL-B: 256 clients = EUR 398.00 - Performance Level LAN3: PL-C: 512 clients = EUR 1,062.-- The microSync is optionally available with the following receivers: 0 - GNS: L1 Multi-GNSS (GPS, GLONASS, Galileo, BeiDou), 72-channel 1 - GPS: Meinberg GPS, 12-Channel 2 - GNS-UC: Meinberg Multi-GNSS (GPS, Galileo), 72-channel Unless otherwise requested, the microSync is offered with the OCXO-SQ oscillator. You can find the values for time and frequency accuracy on our homepage. However, higher quality oscillators are available at the following additional costs: - OCXO-MQ: EUR 166.00 - OCXO-HQ: EUR 419.-- - OCXO-DHQ: EUR 917.-- The HalfRack HR version is only available with a built-in power supply (20-60 V DC). SFP modules are required to use the NTP/PTP interfaces. We recommend using the SFP modules that we have tested and offer, either as electrical or optical version (single mode also possible). Below you will find the prices for the modules:</p>
SFP Modul GB-GE-T/RJ-45	10/100/1000BASE-T SFP RJ-45, Copper
SFP Modul BlueOptics -BO05C856S5	Multimode, 850nm, 1 Gigabit Ethernet, SX
SFP Modul Singlemode Fiber	1000 Base-LX, 1310nm, BO05C13610DIN
LANTIME M250/GPS-SQ/AD (00262432)	including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 1 x 19" bracket - 1 x Two-piece power cord - 1 x MBG S-PRO (Type: Phoenix CN-UB-280DC-BB) - 1 x 5m antenna cable RG58 (N-standard plug / N-standard plug)
LANTIME M320/GPS-SQ/AD10 (00262307)	including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 50m antenna cable RG58 (N standard plug / BNC plug) - 1 x Two-piece power cord - 1 x accessory set (for LANTIME M300/M600)
MBG S-PRO over voltage protection kit	*5 m RG58 coax kabel
LANTIME M200	
LANTIME M320/GPS/2LNE/AD10-AD10(00262128)	NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 2 x two-piece

	power cable - 1 x accessory set (for LANTIME M300/M320) - Specification according to technical data sheet.
LANTIME M320/GPS/AD10-AD10 (00262120)	NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard plug / BNC plug) - 2 x two-piece power cable - 1 x accessory set (for LANTIME M300/M320)
Lantime M600/MRS	
LANTIME M320/MRS/AD10-AD10	NTP TimeServer including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 2 x two-part power cable - 1 x accessory set (for LANTIME M300/M320) Power supply (redundant): 100-240 V AC / 100-200 V DC (easily replaceable) Reference inputs: GPS, PPS, 10MHz, IRIG, NTP Signal outputs: 2 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats timestrings. 1 x PPS, TTL into 50 ohm, pulse duration 200 msec, active high, female BNC connector 1 x Standard Frequency 10 MHz, TTL into 50 ohm, female BNC connector 1 x Alarm Relay Output, change-over contact, 3pin DFK connector
M300/GPS NTP Time Server with GPS antenna/converte	and 50 m RG58 cable
02700300	300m antenna cable RG58 single-sided / unassembled
00260326	N-standard crimp connector for RG58
M320/GPS	
LANTIME M320/GPS/AD10 (00262084)	NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 1 x two-part EU power cable - 1 x accessory set (for LANTIME M300/M320) Power supply: 100-240 V AC / 100-200 V DC (easily replaceable) Signal outputs: 2 x LAN interface 10/100 MBit, RJ45 connector 2 x RS232 interface, independent, 9pin D-Sub female connector, with multi data formats timestrings. 1 x PPS, TTL into 50 ohm, pulse duration 200 msec, active high, female BNC connector 1 x Standard Frequency 10 MHz, TTL into 50 ohm, female BNC connector 1 x Alarm Relay Output, change-over contact, 3pin DFK connector
MBG S-PRO surge protection	(Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N-standard plug / N-standard plug) - Specification according to technical data sheet.
LANTIME M1000-IMS /10015640	Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 2 x 5-pin DFK socket with screw lock (DFK power plug) The system consists of the following components: - 1 x IMS-M1000 housing (1HE / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1HE IMS housing) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-CLK GPS183-SQ -

2 x IMS-PWR-DC20 (power supply Umax. 20 - 60 V DC) - 1 x IMS-SPT M1000 (standard signal distribution - installed internally)

2.1 It shall be able to synchronize NTP-compatible clients with NTP, SNTP and NTS - Network Time Security support. 2.2 It shall have a powerful yet easy-to-use web interface. 2.3 It shall have a backlit LCD panel and function keys for local configuration. 2.4 It shall have a USB port for loading firmware updates, backing up/restoring configuration and log files, and disabling/enabling access to front panel controls. 2.5 It shall have a command-line interface for advanced users with absolute control over all aspects of the server's functionality. 2.6 It shall have comprehensive network support, including full HTTPS encryption for the Web Interface and REST API with TLS certificate management. 2.7 It shall include syslog, SNMP and SMTP support for comprehensive event logging, network integration and notification functionality. 2.8 GNS models will include a MultiGNSS antenna for receiving GPS, Galileo, BeiDou and GLONASS signals. 2.9 GPS and GNS-UC models will include a Meinberg IF antenna for receiving GPS signals and Galileo signals on GNS-UC models. 3. TIME SERVER BASIC SYSTEM SPECIFICATIONS 3.1 Basic System Specifications 3.1.1 The device will have a dual-core Intel Atom E3805 processor running at approximately 1.33 GHz and 1 MB L2 cache. 3.1.2 The device will use a custom operating system, built on the Linux 4.x LTS kernel. 3.1.3 The device will have 2 GB DDR3L main memory. 3.1.4 The device will provide 4 GB eMMC Flash storage. 3.2 Monitoring and Alarm Features 3.2.1 The device shall support SNMP v1, SNMP v2, and SNMP v3 protocols. 3.2.2 The device shall support email (SMTP) and syslog notification channels. 3.2.3 The device shall be able to access log records via the web interface, download via FTP service, or access via the command line interface. 3.3 NTP Support Features 3.3.1 The device shall support NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (RFC 5905), SNTP v3 (RFC 1769), and SNTP v4 (RFC 2030) protocols. 3.3.2 The device shall provide symmetric key-based authentication using MD5, SHA-1, or AES-128-CMAC hash algorithms. 3.3.3 The device shall provide NTP v4 Autokey (private/public key pairs) support. 3.3.4 The device shall provide NTS encryption (RFC 8915) in unicast client mode for NTP v4. 3.3.5 The device shall be capable of processing up to 25,000 NTP requests per second. 3.5 Oscillator Features Different oscillators will be given as options according to the need. The features of these oscillators will be as follows. 3.5.1 Holdover Performance (1 Day) o TCXO ± 4.3 msec o OCXO LQ ± 865 μ sec o OCXO SQ ± 220 μ sec o OCXO MQ ± 65 μ sec o OCXO HQ ± 22 μ sec o OCXO DHQ ± 4.5 μ sec 3.5.2 Holdover Performance (1 Year) o TCXO ± 16 sec o OCXO LQ ± 6.3 sec o OCXO SQ ± 4.7 sec o OCXO MQ ± 1.6 sec o OCXO HQ ± 788 msec o OCXO DHQ ± 158 msec 3.6 Valid Receiver Types 3.6.1 The device has a 12-channel L1 C/A coded receiver to receive signals from the GPS satellite constellation. (GPS) 3.6.2 The device shall have a 72-channel receiver to receive signals from the GPS (L1), Galileo (E1 B/C), BeiDou (B1I) and GLONASS (L1OF) satellite constellations. (GNS) 3.6.3 The device shall have a 72-channel receiver to receive signals from the GPS (L1 C/A

Time Server

code) and Galileo (E1 B/C) satellite constellations. (GNS-UC)
 3.6.4 The device shall have a square modulation receiver to receive signals from the DCF77 longwave transmitter in Mainflingen, Germany. (PZF)
 3.7 Operational Specifications
 3.7.1 The device shall emit 0 dB(A) acoustic noise, i.e., shall operate completely silently.
 3.7.2 The device shall operate without problems between 0°C and 50°C (32°F and 122°F).
 3.7.3 The device shall be capable of being stored at temperatures between -20°C and 70°C (-4°F and 158°F).
 3.7.4 The device shall operate in a 30°C (86°F) environment with a relative humidity of up to 85%, without condensation.
 3.7.5 The device shall operate without problems at altitudes from sea level to 4000 meters (13,123 feet).
 3.8 Device Body Specifications
 3.8.1 The device shall be in a 1U / 66 HP form factor.
 3.8.2 The dimensions of the device shall be approximately 337 mm x 43.3 mm x 248 mm.
 3.8.3 The chassis of the device shall be made of sheet steel.
 3.8.4 The device shall have IP30 protection class, i.e., it shall provide limited protection against dust ingress.
 3.9 GPS Antenna Specifications
 3.9.1 The frequency range shall be 1575.42 MHz (GPS L1 / Galileo E1 band).
 3.9.2 The antenna connector shall be N Female type.
 3.9.3 The bandwidth shall be 9 MHz.
 3.9.4 The antenna shall be suitable for operation in weather conditions of -60 °C to 80 °C, and shall be in IP66 standards.
 3.9.5 The antenna splitter shall be 1 input and 4 outputs.
 3.9.6 The 20 m antenna shall be delivered with RG58U cable.

[GPS Antenna and Mounting Equipmen](#)

[1 Input 4 Output Antenna Distributor](#)

[RG58 Antenna Cable](#)

[LANTIME M150/GPS \(00262150\)](#)

NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 1 x console adapter cable (RJ45/D-Sub 9-pin 1.5m Cat6 black) - 1 x 5-pin DFK socket with screw fuse (DFK power plug)

[LANTIME M100](#)

NTP TIME SERVER WITH GPS-LANTIME M100

[00262084 LANTIME M320/GPS/AD10](#)

NTP time server including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 1 x two-part power cable - 1 x accessory set (for LANTIME M300/M320)

[02702100](#)

100m antenna cable RG58 N-standard connector / BNC connector

[02702100 50 meter](#)

50 meter antenna cable RG58 N-standard connector / BNC connector

[M320](#)

/GPS NTP

[MBG S-PRO surge protection](#)

(Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N-standard plug / N-standard plug)

GPS calculator radio clock including the following accessories:

GPS183PEX	- 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 1 x GPSPEX/GNSPEX card holder (short)
LANTIME M150/GNS	NTP time server minus including the following accessories: - 1 x GNMANTv2 (GNSS Multi Band Antenna) - 1 x 20m antenna cable Speedfoam 240HFJ 50Ohm (SMA connector / N-standard connector) - 1 x console adapter cable (RJ45/D-Sub 9-pin 1.5m Cat6 black) - 1 x 5-pin DFK socket with screw fuse (DFK power plug)
M100	
Sonoma D22 Network Time Server (GPS)	
00262109	LANTIME M250/GPS/AD NTP time server less. including the following accessories: - 1 x GPSANTv2 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N-type connector / BNC connector) - 1 x 19" mounting bracket - 1 x two-part power cable
LANTIME M320 time server	
M300rdt - 10/100/1000 Mbit	
Lantime M1000-Ims /10010000	NTP time server minus including the following accessories: - 1 x GPSANT HF2020 (GPS antenna / converter unit) - 1 x 20m antenna cable RG58 (N-standard connector / BNC connector) - 2 x 5-pin DFK socket with screw lock (DFK power plug) The above System consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19 "housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 2 x IMS-LNE-GbE (expansion card with 4 x Gigabit LAN ports) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-CLK GPS180-HQ - 1 x IMS-BPE-2000 (4 BNC outputs: PPS, 10MHz, TC DCLS, TC AM) - 2 x IMS-PWR-DC20 (power supply 20 - 72 VDC) - 1 x IMS-SPT M1000 (standard signal distribution - internally installed) HS code: 9105 9100 Country of origin: Federal Republic of Germany
Gps164	SATELLITE RECEIVER FOR DIN MOUNTING RAIL
100m Antennenkabel Rg58	N-Norm Stecker / BNC Stecker HS-Code: 8544 2000 Ursprungsland: Bundesrepublik Deutschland
Lantime M200/Gps (Gps-Variante)	
Gps167	
Gps165dhs	GPS satellite receiver abzgl. including the following accessories: - 1 x GPSANT HF2020 (GPS antenna / converter unit) - 1 x 20m antenna cable RG58 (N-standard male / BNC male) - 1 x 16 pol. Connector DFMC HS Code: 9105 9100 Country of origin: Federal Republic of Germany
Lantime M300/Mrs	
Gpsant	
Lantime M600/Gps	

Lantime M200/Gps-	
Lightning Protection P-Tron Obsolete, Replaced By Mbg S-Pro A220;Berspannungsschutz	
Lantime M300/Pzf	
Ont6ss	NTP display NTP display with the following features: - 6-digit 100 / 75mm high 7-segment LED display, red, for time (hh: mm: ss) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in brushed stainless steel case HS Code: 9105 2100 Country of origin: USA
M300 Ntp	
LANTIME M200/GPS/AD	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x 19" bracket - 1 x two-piece power cord -Specification according to technical data sheet Power supply: 100-200V DC / 100-240V AC
Lantime M300/Rdt	
Lantime M200/Pzf (Dcf77-Variante)	
SynCFire 1100 Ntp Time Server	
19quot; Rack-Einbaunit	
Verl¼;Ngerung Der Gew¼;Hrleistung Des Lantime M300/Gps.	
P/N: 00026270 Lantime M200/Gps	
Lantime M600/Gps/Ptpv2/Rps	
20m Antennenkabel Rg58	N-Norm Stecker / BNC Stecker HS-Code: 8544 2000
Lantime M100/Gps	
LANTIME M1000-IMS /10013564	Modular synchronization solution including the following accessories: - 1 x accessory set (for LANTIME M1000) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 2 x two-piece power cord The system consists of the following components: - 1 x IMS-M1000 housing (1U / 84TE 19" housing with display) - 1 x IMS-ACM M1000 (active fan unit for 1U IMS housing) - 1 x IMS-LNE-GbE (expansion card with 4 x Gigabit LAN ports) - 1 x IMS-CPU-C15G2 (LANTIME processor unit) - 1 x IMS-CLK GPS182-MQ - 2 x IMS-HPS100 (PL-A: 8 clients) - 2 x IMS-PWR-AD10 (power supply Umax. 90 - 265 V AC / 90 - 250 V DC) - 1 x IMS-SPT M1000 (standard signal distribution - installed internally) - Specification according to the technical data sheet.

Lantime M300/Scada/Freq-3	
Ont6bk	NTP display, one-sided NTP display with the following features: - 6-digit 100 / 75mm high 7-segment LED display, red, for time (hh: mm: ss) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in powder coated aluminum housing, black HS Code: 9105 2100 Country of origin: USA
Lantime M200/Gps	NTP time server minus including the following accessories: - 1 x GPSANT HF2020 (GPS antenna / converter unit) - 1 x 100m antenna cable RG58 (N-standard male / BNC male) - 1 x 19 "bracket for LANTIME M200 - 1 x power cable
SynCFire Sf1100-Sc-6 / 1,9	
Lan-Card For Lantime M300	
Lantime M300/Gps-Hq	
Poe Injector	(If there is no POE capable switch, then one PoE injector must be considered per display) PoE Injector Power over Ethernet inklusive Power Cord and User Manual HS-Code: 8517 6200 Ursprungland: Taiwan
Ont4bk	NTP display NTP display with the following features: - 4-digit 100mm high 7-segment LED display, red, for time (hh: mm) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in powder coated aluminum housing, black HS Code: 9105 2100 Country of origin: USA
P/N: 00026291 Lantime M200/Pzf	
Ont4ss	NTP display NTP display with the following features: - 4-digit 100mm high 7-segment LED display, red, for time (hh: mm) - Power over Ethernet (IEEE802.3af, PoE) - Network connection and power supply via 10 / 100MBit RJ45 connection - integrated NTP client Built in brushed stainless steel case HS Code: 9105 2100 Country of origin: USA
Lantime M300/Gps.	
Mbg S-Pro	MBG S-PRO surge protection (Type: Phoenix CN-UB-280DC-BB) including the following accessories: - 1 x 5m antenna cable RG58 (N-standard male / N-standard male)
Lantime M300/Rdt/3ge	NTP time server including the following accessories: - 1 x power cable - Specification according to technical data sheet. HS code: 8543 7090 // Country of origin: Federal Republic of Germany
LANTIME M300/GPS/AD10	NTP time server including the following accessories: - 1 x GPSANT HF2020 (GPS antenna/converter unit) - 1 x 20m antenna cable RG58 (N standard plug / BNC plug) - 1 x two-piece power cord - 1 x accessory set (for LANTIME M300/M600)

[Gps163dhs](#)

SATELLITE RECEIVER FOR DIN MOUNTING RAIL

[Syncfire Sf1100-Sc-16 / 2,6](#)