

NTP Time Server

Network time distribution

The PEWETA NTP Time Server supplies the current time and date signal, received from the German DCF77 time protocol radio transmitter or from GPS satellite, to an IT network.

This enables all "clients" within the network, like for instance PCs, servers, smart phones, telephone systems, printers, and even clocks, to synchronize with this time base. A temperature controlled crystal oscillator (TXCO) ensures accurate timekeeping even in cases of a missing DCF77 or GPS radio signal. Maximum deviation during autonomous operation is +/- 16 seconds per year (standard version). Optionally, the NTP Time Server can be equipped with a crystal oven (OCXO), which reduces the maximum deviation during autonomous operation down to +/- 1.6(!) seconds per year.

For security of operation, two time servers can be used to safeguard availability on the network (system redundancy). A web-based user interface provides for simple configuration of status messages, network settings, and safety adjustments. The support for a multitude of interfaces and formats offers maximum compatibility to common networks. The server, operating under a LINUX-based operating system, ensures maintenance-free long-term usage and can be updated if necessary. On the NTP Time Server PRO version, various common ASCII time codes can be selected for output through one of the 2 serial RS232 interfaces. Individual codes can be supplied on request.

If at least three NTP Time Servers are clustered (system redundancy) they act with a shared IP address on the network. If one of the NTP Time Servers provides a deviating time signal, this device will be deactivated and its function will be taken over by the other NTP Time Servers. Clustering functionality is included in each PEWETA NTP Time Server version as standard.



11.960.120 shown

Technical data	NTP Time Server PRO	NTP Time Server BASIC
Case	19" rack mount	table housing
Dimensions	1HU/84DU, WxHxD: 443x45x288 mm	W x H x D: cir. 335x45x 240 mm
Network interface	2 x RJ45 10/100 MBit	1 x RJ45 10/100 MBit
Serial interface	2 x RS232 (menu-guided setup)	-
10MHz interface	BNC socket, TTL at 50 Ohm	-
Alarm relay	1 x free-floating	-
Status messages	via E-Mail, WinMail, SNMP, Display	
Network protocols	TCP, UDP, TELNET, FTP, SSH (inkl. SFTP, SCP), HTTP, HTTPS, SYSLOG, IP v4, IP v6, DHCP, DHCP v6	
NTP protocols	NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (RFC 5905)	
NTP broadcast modes	Unicast, Multicast, Broadcast	
SNMP	SNMPv1 (RFC 1157), SNMPv2c (RFC 1901-1908), SNMP v3 (RFC 3411-3418)	
Display	LC display, 2 x 40 characters, illuminated	
Power supply	100...240 VAC (50...60 Hz)	-
	24 VDC (on request)	-
Power consumption (without options)	30 watts	20 watts

Type	Item No.	€ each
NTP Time Server PRO, including DCF77 radio receiver	11.960.120	4,590.-
NTP Time Server PRO, including GPS radio receiver	11.960.130	5,790.-
NTP Time Server BASIC, including DCF77 radio receiver	11.960.121	3,490.-
NTP Time Server BASIC, including GPS radio receiver	11.960.131	4,190.-

Extra	Item No.	€ each
19" mounting kit for NTP Time Server BASIC (resulting dimensions are 1 HU/84 WU)	01.960.100	79.-

Options for NTP Time Server PRO	Suffix	Surcharge € each
Quartz oscillator OCXO, accuracy level +/- 1.6 seconds/year	-61	425.-
2 additional RJ45 10/100BASE-T ports	-62	590.-
IRIG-B output	-63	650.-



11.960.121



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Type series
960

