

MOBATIME

Overview | Output

System information

Active alarms

(No active alarms) Alarm history...

Time, time state

Internal time:	10:24:55
Stratum of the NTS:	2
Last corrected drift:	0.012ppm (-
Time source:	10.241.0.75
Stratum of the source:	1
Quality of the source:	100% (377)
Offset to source:	44us
Jitter of the source:	31us

Local source

Actual measured offset: 0s Ous Last time received DCF: 1.1.1970 co Sec. counter DCF: 0 Stratum of the source: 12

Output

Mode: Disabled

Network IPv4

DHCP:	Enabled
IP-Address:	10.241.0.120
Subnet mask:	255.240.0.0
Gateway:	10.240.2.1
DNS server:	10.240.0.7
Host name:	NTS77F538

Network IPv6

Auto conf:DisabledDHCP V6:DisabledLink local IP:fe80::20c:c6ff:fe77 fb.Global IP 1:no infoGlobal IP 2:no infoGateway:no gw



Network time server

The network time server NTS IT is a compact and powerful NTP time server with a very good costperformance ratio.

The NTS IT guarantees maximum operating safety for the time synchronization of IT systems.

It can be used nearly anywhere to synchronize IT systems, data centers, servers, computers, fire alarm systems, audio and video surveillance etc. via NTP with the precise time. The NTS IT can be synchronized by another time server via NTP. Alternatively, it can take over the time from GPS (from a GPS 4500 receiver).

The commissioning and operation is easy and can be done via terminal menu or web interface.



NTS IT - Advantages

Nowadays, online NTP servers are often used for the time synchronization of a server or data center in the IT area. However, this kind of synchronization is not ideal in terms of reliability and operating safety, as a loss of internet connection leads to a loss of an accurate NTP time source.

Because different NTP clients operate with a variety of time-keeping mechanisms, these disturbances cause time deviations between devices (device times drift apart). The time deviation increases the longer the loss of connection persists. This can endanger the operation of the system (e.g. data inconsistency).

By using an NTS IT time server, this risk can be greatly reduced. As a local time server, the NTS IT guarantees additional operating safety: in case of loss of the NTP server connection, it carries on the time and is as such available as an accurate NTP time reference for all installed NTP clients.

If the NTS IT is used in combination with a GPS 4500 receiver, additional operating safety and utmost autonomy for the time synchronization of IT infrastructure are ensured. The GPS 4500 delivers a time signal with the accuracy of an atomic clock and a high availability that is used by the NTS IT to create NTP packets. The combination of NTS IT & GPS 4500 allows for optimal redundancy as additional fallback NTP sources can be configured in the NTS IT. Thus, the time synchronization of your data center is ensured in case of any disturbance.

NTS IT - Examples of use

NTS IT synchronized from public NTP server



NTS IT synchronized from GPS 4500 and with public fallback NTP server





NTS IT - Operation and mounting

Operation of the NTS IT

The NTS IT is operated via terminal menu or web interface (e.g. Internet Explorer). Thanks to the user-friendly operation, the NTS IT can be set up quickly and intuitively. Furthermore, 4 public NTP servers are preset as possible time sources.

	MAC address; 00-0C: C6:77:F5:3 Uptime: 60 days, 22 hours, 11 minuto immware version: 00010714 00 01000 Version details Host name Prts27F530
Overview Outputs Time handling Alarms Network SNMP General, Services	Maintenance Network Interface Auto negotistion
System information Active alarms (No active alarms) Alarm history	IP-V4 Configuration IP-Adaes IP-Adaes IP-Adaes IP-Adaes IP-ID-ID-ID-ID-ID-ID-ID-ID-ID-ID-ID-ID-ID-
-Time, time state	DHCP V6 Divobled 7 IP-Address / Prefix 0.0 E4 (# Address
Internal time: 09:25:23 Stratum of the NTS: 2 Last corrected drift: 0.115ppm (-37.888) Time source: 192.168.123.10	9480-92; B B DNS server: 00 9
Stratum of the source: 1	Time handling
Quality of the source: 100% (377) Offset to source: 543us Jitter of the source: 2753us	Orneral configurations Stratum (Entry system) Fis stratum (Dreado, 1-156%); 12 Log second mode: Log second mode: Log second det
Local source	Manual time adjustment
Actual measured offset: 0s 0us Last time received DCF: 1.1.1970 00:00:00 Sec. counter DCF: 0 Stratum of the source: 12	Set time (IPC) issues as 0.011 YY Adjust time [IPs] issues and 0.011 YY - Local time source settings Suese mode (DCFA0PS) Time zone of the source DCF/DPS source exerction [IPs] DC
Output	Alarm delay for failure of source (mm) 0 of 1000 Synch and Synch a
Mode: Disabled	Stratum timeout (0-16) cource fail [h]: 12
Network IPv4 DHCP: Enabled IP-Address: 10.241.0.120 Subnet mask: 255.240.0.0 Gateway: 10	Attraction Attraction Attraction Server / Peer Peer Austraction No. Address Address (eA-attraction) Server / Peer Peer Austraction N1 Approximation comp 10 15 Server / Peer Peer Peer Peer Peer Austraction Server / Peer No. Address Server / Peer No. Addres Serv

Mounting the NTS IT

Thanks to the provided rubber feet, the NTS IT can be placed on a flat surface without slipping (ill. 1). Using the mounting ears, the NTS IT can also be mounted on a wall (ill. 2). Optionally, mounting brackets for rack mounting are available (ill. 3).





NTS IT - Technical details

