OSA 5220 NTP Server r2.0

The OSA 5220 NTP Server is a Stratum 1 NTP server which provide you an economic and easy synchronization of your Ethernet TCP/IP network.

Introduction

The OSCILLOQUARTZ 5220 NTP synchronizes all your devices connected to your Ethernet network.

Accuracy

Its own base time and its algorithm guarantee an output accuracy of $1\mu s$ when GPS synchronized. The NTP protocol allows the NTP client to reach an accuracy of at least 1ms with the OSCILLOQUARTZ 5220 NTP Server r2.0.

Security

High security level : 64 bits RSA^{TM} MD5 encryption, leap time protection, high stability time base, SNMP alarm traps, server state HTTP supervision.

Remote management

Possible supervision with HTTP, SNMP and Telnet. Complete configuration and supervision with WEB page or "OSCILLOQUARTZ Network Manager" Windows® NT/XP/2000 based software.

Firmware upgrade by Ethernet.

Internal time base

The OSCILLOQUARTZ 5220 NTP has autonomy to provide a stable output time code even when external synchronization is lost. In case of power supply failure, the OSCILLOQUARTZ 5220 NTP can run normally for 4 hours on its internal battery.

Software

"OSCILLOQUARTZ Network Manager" Windows® NT/XP/2000 based software for supervision and configuration. In option, 10 users licence of the OSCILLOQUARTZ NTP client software for Windows® NT/XP/2000.



Highlights

- > Stratum 1 NTP server
- 64 bits RSA Data Security, Inc. MD5 Message-Digest Algorithm
- Supervision and configuration through Ethernet (HTTP, SNMP, TELNET, "OSCILLOQUARTZ Network Manager" Windows® NT/XP/2000 based software)
- > 19" 1U rack case (482x263x44mm)
- External synchronization input : GPS
- "Plug-and-play" installation

Typical Applications

- > Computer Network Time Synchronization
- > Equipment management alarm/event time stamping
- > Synchronization of time displays



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Typical Characteristics

Environmental Characteristics

Power supply requirement:

230 VAC Max.: 0,1 A Max. or
 115 VAC Max.: 0,2 A Max. or
 20-60 VDC Max.: 0,6 - 0,15A Max.

Environment

Operating temperature: 0 to 50°C (32 to 122°F)
Storage temperature: -40 to 70°C (-41 to 151°F)

Electrical autonomy

• Typ. 4 hours on internal NiMH battery, 5 to 7 years lifetime.

Dimensions

• 44mm (1U x 263mm x 482mm (19")

Weight

■ 2,3Kg

Certifications

CE, EN 60950-1, EN 55022, EN 50024

MTBF

2'309'468 hours

Oscillator stability

Standard: ageing 2x10E10/day

Synchronization input connector

GPS (Antenna, preamp.): TNC

GPS Antenna

• **Dimensions:** 3,05" D x 2,61" H 77,5mm x 66,2mm

Operating temperature: -40°C to 85°C

• **Cable:** LMR 400, 20, 60, 120m

Network protocols

Network Time Protocol (NTP)

- NTP V2C (RFC 1441), NTP v3 (RFC 1305),
- NTP V4 SNTP (RFC 2030)
- UDP / TCP Time Protocol (RFC 868)
- SNMP v2C (RFC 1441)
- MIB II (RFC 1213)
- DHCP (RFC 2131)HTTP / HTML
- TELNET

Configuration

- HTTP configuration
- "OSCILLOQUARTZ Network Manager" software for Windows® NT/XP/2000.
- TELNET

NTP Client

 In option: NTP/SNTP synchronization software for Windows® NT/XP/2000. 10 users licence.



Oscilloquartz SA reserves the right to change all specifications contained herein at any time without prior notice.





