

# 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™ 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: 5 to 50°C (41 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

- 44 mm (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, 120 m

### 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.

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