

PRESENTATION

Compact and modular, the Netsilon time server combines the accuracy of a master clock with the secure approach of data networks:

- High-precision internal clock regulated by its TCXO quartz.
- Priority order for the different synchronisation references (input).
- Modular design allowing a wide variety of input/output signals (up to 4 expansion cards).
- Network security management: Enable/disable encryption, authentication, and access protocols.
- Alarm information available as SNMP traps and email.

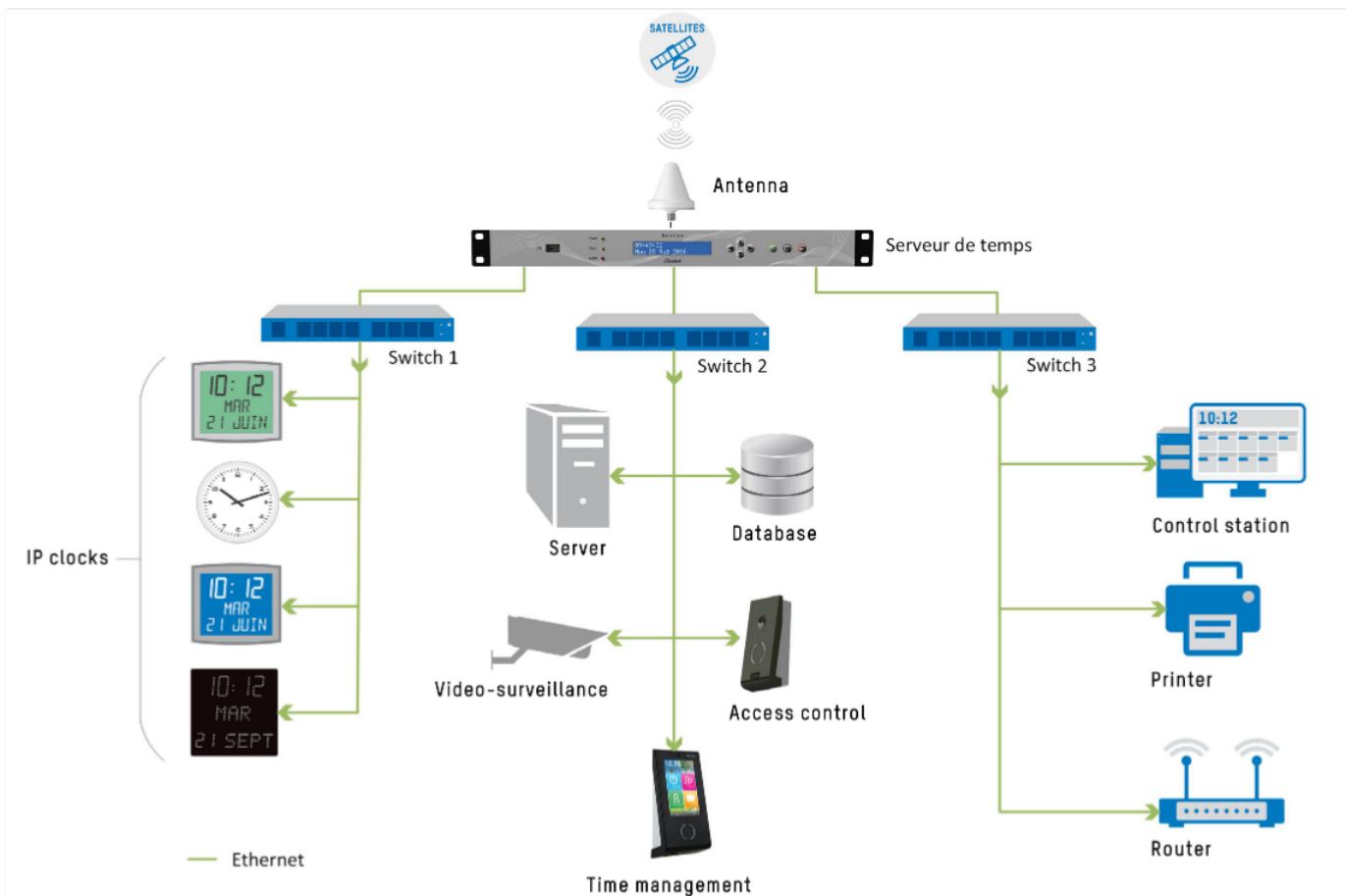


See product page on
>> www.bodet-time.com <<

APPLICABLE STANDARDS

- EN 62368-1
- EN 55032
- EN 55024

EXAMPLE OF INSTALLATION



MODELS

QUARTZ TCXO TYPICAL VALUES

Accuracy (average after 24 hours with GPS signal)	1x10 ⁻⁹
Stability (average after 2 weeks with GPS signal)	1x10 ⁻⁷ /day
Input	1x GPS
Outputs	1x Ethernet, 4 slots for expansion cards
Holdover (after 2-week GPS synchronisation at constant temperature)	5 ms (after 24 hours)
Alarm	SNMP traps, email and relay contact

MECHANICAL CHARACTERISTICS

Construction	Metal case – 1 U rack – 19"
Operating temperature	From 0°C to +50°C
Humidity rating	0-90 % without condensation
Protection rating	IP41
Weight	2.5 kg
Dimensions	447 x 264 x 44.2 mm



ELECTRICAL CHARACTERISTICS

Power supply	18-36 VDC or 100-240VAC 50/60 Hz (1.4 A @ 115VAC, 0.85 A @ 230 VAC), without ventilation
MTBF	100,000 hours

COMMUNICATIONS

Network port	RJ45, 1000BASE-T (Gigabit)
Front panel	USB socket (Enable/Disable) for saving and updating software Keyboard (lockable) and LCD screen for network configuration

Ref.: 643041 A 09/16

NETWORK CHARACTERISTICS

PROTOCOLS

NTP V2, V3, V4	Conforms with or exceeds RFC 1305 and 5905. Supports Unicast, broadcast, Multicast, MD5 encryption and Autokey.
Client/server mode:	
NTP requests per second.....	> 2000
SNTP V3, V4	Conforms with or exceeds RFC 1769, 2030, 4330 and 5905.

MANAGEMENT

HTTP/HTTPS	Browser-based configuration and supervision
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COMMUNICATIONS

IP.....	Version 4
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SERVICES

DHCP	Version 4
SMTP	Mail forwarding

SUPERVISION

SNMP	Supports v1, v2c and v3 (traps + agents)
Relay contact/External input	Sending and reception of alarms

SECURITY FEATURES

- Enable/disable protocols
- Protection by single authentication (login + password)
- DES and AES encryption
- SHA-1, MD5 authentication
- SSL encryption

REFERENCES

• 907900	NETSILON 7 (100-240 VAC)
• 907901	NETSILON 7 (18-36 VDC)
• 907902	NETSILON 7 (100-240 VAC + 18-36 VDC)

EXPANSION CARDS

• 907920	Netsilon 2-port Ethernet Card
• 907940	Netsilon 2-port AFNOR Card
• 907942	Netsilon 1-output Pulse Card
• 907944	Netsilon 1 input + 1 output Current Loop Card

ACCESSORIES

• 907037.....	Bodet GPS synchronisation antenna
• 907241	DHF secondary transmitter
• 907511	DHF main transmitter



EXPANSION CARDS

CURRENT LOOP CARD

Quantity 1x output

Signal type Analogue

Connector Terminal

Max. no. of cards 1

AFNOR CARD

Quantity 2x outputs (independent)

Signal type Amplitude modulation

Connector Terminal

Max. no. of cards 4

ETHERNET CARD

Quantity 2x ports

RJ45 - 1000BASE-T

Connector 5 ports max. (1 on the main + 2 by card)

Max. no. of cards 2

PULSE CARD

Quantity 1x output

Signal type 24 VDC (Min or 1/2 Min //)

Connector Terminal

Max. no. of cards 4