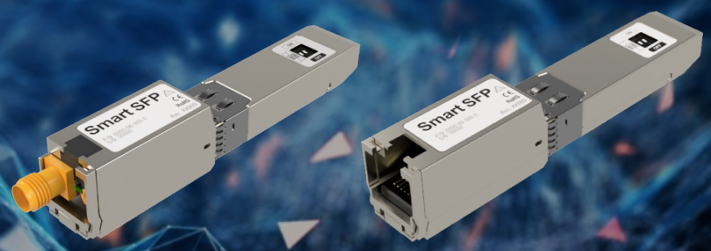
Datasheet

PlumSpace

# Smart SFP Time server

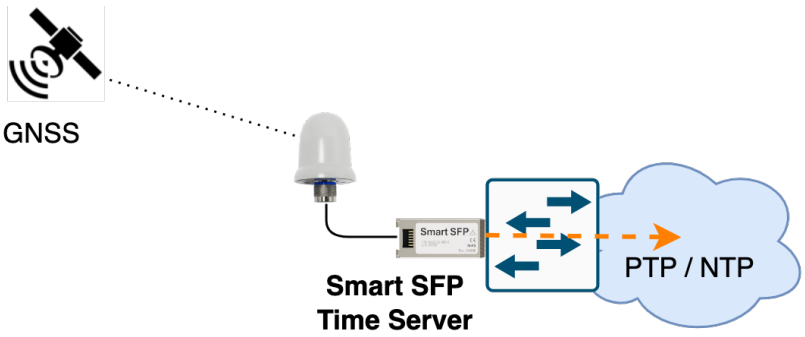
Easy to deploy PTP and NTP server




Smart SFP Time Server provides accurate phase and frequency synchronization using PTP and NTP at the network edge and aggregation sites. SFP form factor and rich feature set enable a wide range of deployment options for network synchronization.

From mobile networks and power utilities to time-critical applications, Smart SFP Time server enables precise synchronization in the most space-restrictive environments and provide a simple way to upgrade legacy systems with Precision Time Protocol.

Smart SFP Time Server compatible with network equipment of any vendor.




## Applications:

- Mobile networks
- Precise sync from access and aggregation switches
- Radio access network synchronization
- Finance and High frequency trading (HFT) networks
- Backup sync source

## Key features:

- PTP
- NTP
- Multi GNSS
- Configurable fallback schemes
- Linux PTP feature set

## Time synchronization:

- PTP IEEE 1588v2 (2008)
- PTP Ordinary (Grandmaster), Boundary, Slave
- UDP/IPv4 and raw Ethernet (L2)
- Profiles:
  - Default 1588
  - Telecom: G.8265.1, G.8275.1, and G.8275.2
  - Automotive
  - Enterprise
- Simultaneous multiple PTP and NTP instances
- PTP to NTP gateway
- NTP server, client
- Common or separate PTP and management IP addresses
- VLAN (IEEE 802.1Q) or untagged
- Flexible configuration using Linux utils

## Management:

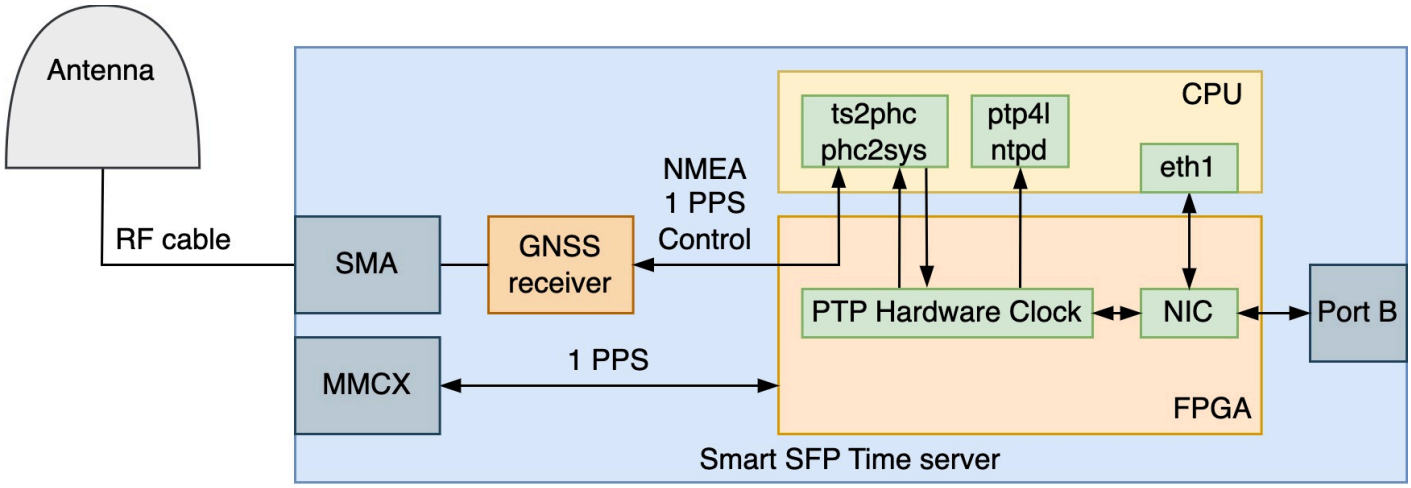
- CLI over SSH, SNMP, REST API
- Static IP, DHCP
- IPv4, IPv6, VRF
- VLAN
- ACL, VPN
- LED status indicator
- Remote software upgrade

## General:

- SFP MSA compliant
- Multi-vendor compatibility
- Industrial temperature

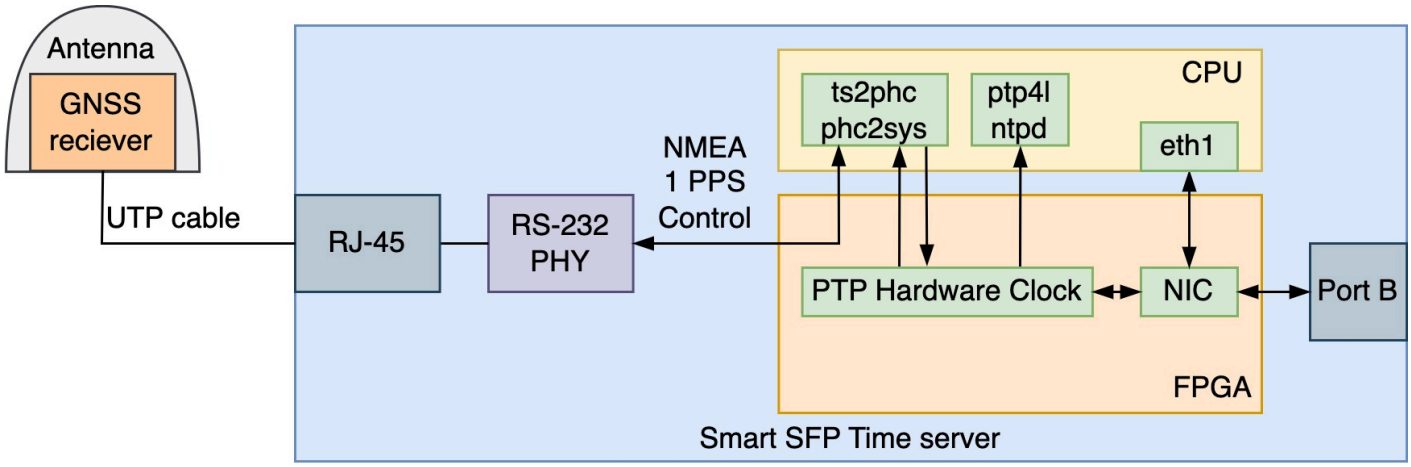
**Model with built-in receiver:**

- GNSS receiver built-in to module
- GPS, GALILEO, GLONASS, Beidou
- Support any RF antenna, SMA connector
- 1 PPS input or output, MMCX connector
- Power 3.3 V from module to antenna




**Model with external receiver:**

- Antenna with built-in GNSS receiver is required
- GPS, GALILEO, GLONASS, Beidou
- RS-232 (NMEA and antenna control)
- 1 PPS input
- Power 5 V from module to antenna
- Cable length up to 10 m
- RJ-45 connector




| Ordering information |
|---|
| ARM CPU, FPGA, GNSS receiver, Gigabit Ethernet, 1 PPS, SMA, MMCX |
| ARM CPU, FPGA, Gigabit Ethernet, RS-232, 1 PPS, 5 V, RJ-45 |

Find out more: plumspace.com, info@plumspace.com

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