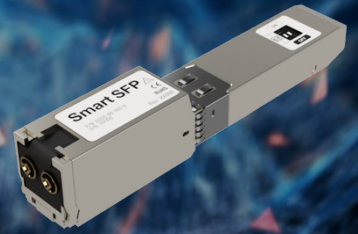


# Smart SFP IP SLA Probe with GNSS receiver

Easy to deploy high accuracy measurements



Smart SFP IP SLA Probe with GNSS receiver is an essential tool for IP SLA monitoring in networks that require high accuracy delay and jitter measurements such as mobile network operators, high frequency trading companies and banks.

Smart SFP IP SLA Probe with GNSS receiver can be very useful when it is not possible to deliver high accuracy synchronization signal over the IP network because the network is unreliable, unstable, leased or has a poor quality.

With its flexibility in choosing a modification with built-in or external or GNSS receiver, it provides seamless legacy network upgrade or possibility to add high accuracy IP SLA functions to any existing or newly placed network device.

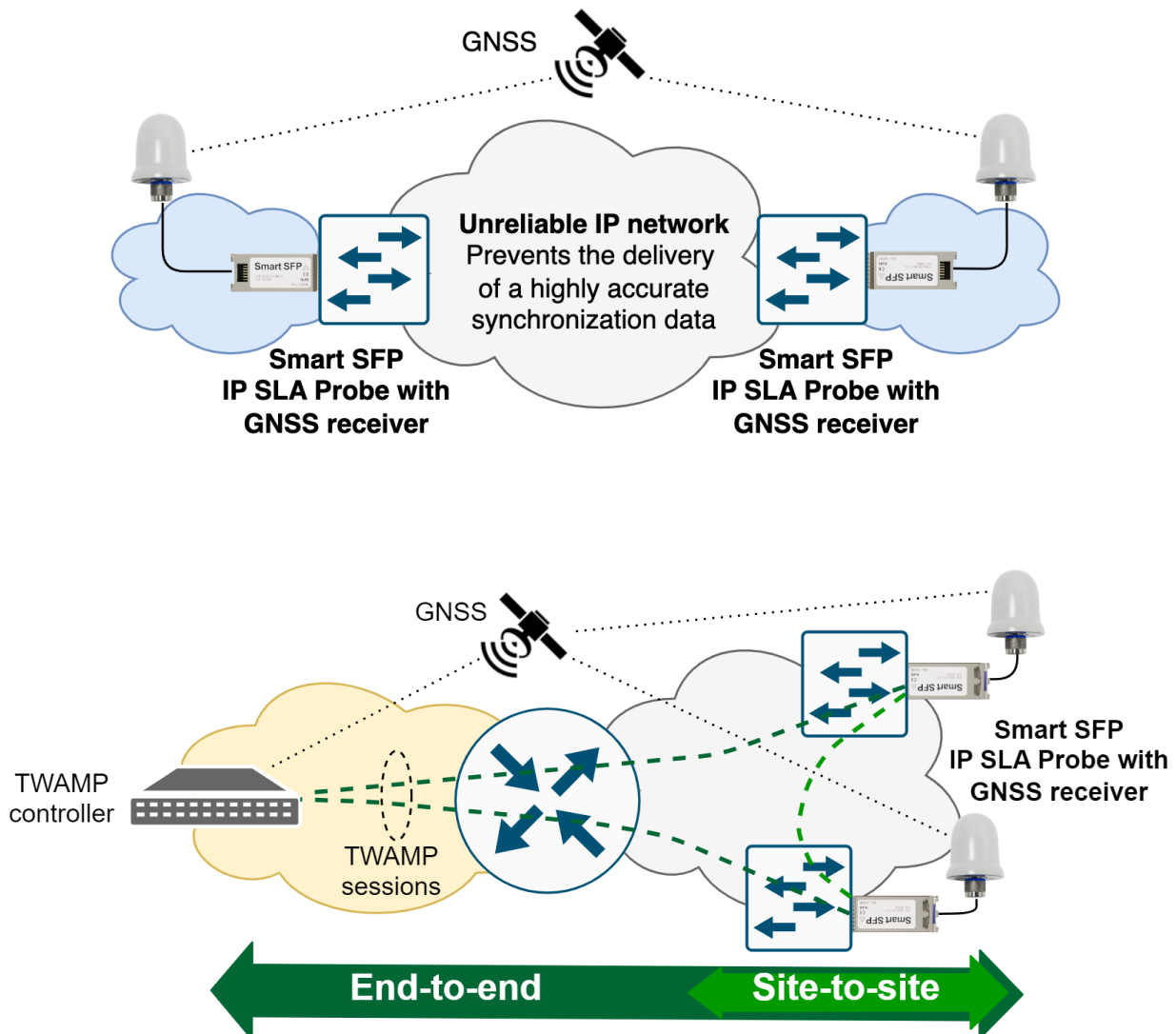
Smart SFP IP SLA Probe supports easy integration with 3rd party IP SLA agents and management system.

**Applications:**

- Mobile networks
- High frequency trading (HFT) networks

**Key features:**

- Nanoseconds accuracy
- One-way and two-way measurements
- Y.1564
- TWAMP Full and Light
- GNSS synchronization



#### IP SLA:

- Line rate packet generator and analyzer
- Y.1564:
  - 4 streams
  - 1-way, 2-way
- Smart Loopback:
  - L2-L4
  - Persistent, on-demand, by filter
  - 12 filters on each port
  - Filter by fields: VLAN ID, IP src/dst, TCP/UDP src/dst ports
- TWAMP Full and Light
- TWAMP Light at line rate (HW offload)
- Timestep insertion (HW offload)
- Up to nanoseconds accuracy
- Statistics

#### 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<sup>1</sup>
- 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

#### 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

#### 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](http://plumspace.com), [info@plumspace.com](mailto:info@plumspace.com)

We are open for partnership