



The ComNet SFP-VDSLAB small form-factor pluggable Ethernet extender module kit improves bandwidth and distance of Ethernet over existing VDSL2 technology. It helps avoid installation costs of new fiber lines on site and can extend Ethernet service on UTP wire with distance up to 3,000 meters. Full Duplex 100 Mbps speed can reach up to 400 meters over standard Cat 5e 2-wire cable. The symmetric profile can be used for standard Ethernet connections or the asymmetric profile can support high traffic flow in a single direction.

Housed in a small form-factor pluggable (SFP) module enclosure, it is designed for plug-and-play installation into any 1000BASE-FX Ethernet unit with an MSA-compliant port. These pairs include the SFP-VDSL A module to be installed at one end and the SFP-VDSL B installed in the other.

FEATURES

- › Extends Ethernet* up to 1.8 mi (3 km) (see distance/ bandwidth table on page 2) and can support 1,300 ft (400 m) at 100 Mbps over Cat 5e 2-wire cable.
- › Small Form-Factor Pluggable (SFP) module can be plugged into any Ethernet switch with SFP ports that support 1000BASE-FX†
- › Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- › Lifetime Warranty

APPLICATIONS

- › Retrofit existing VDSL2 installations to Ethernet-based systems
- › Metering, Transportation, Outdoor Wi-Fi Access Points, IP Surveillance

** Distance figures are obtained using in-house testing mirroring installations. Factors such as cable quality, the number of connectors and splices in the cable run, and environmental conditions encountered within the installation might affect the actual transmission distance and should be taken into consideration.*

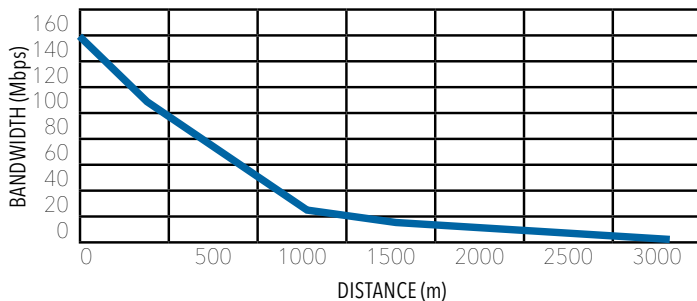
INSTALLATION & OPERATION

SFP-VDSL2 is a book-end solution that can work only with an additional SFP-VDSL2. Follow the instructions below to install and connect SFP-VDSL2:
Plug one of the two SFP-VDSL2 into the 1000BASE-FX SFP slot of a MSA-compliant device/switch. Repeat this step for the second SFP-VDSL2 in the pair.

Connection

Connect SFP-VDSL2 devices using a twisted 2-wire cable (use pins 4 & 5). Always connect SFP-VDSL2 to a SFP-VDSL2. If a SFP-VDSL2 was connected to a regular port of any Ethernet device, such as a switch, reset the SFP-VDSL2 by unplugging and re-inserting the unit.
Link synchronization may take up to one minute.

BANDWIDTH VS DISTANCE



SPECIFICATIONS

Interface

Type	1000BaseFX
Connector	SFP / MSA Compliant
Connectors	RJ-45
Data Rate	Up to 100 Mbps

Power

Operating Voltage	3.3 V
Power Consumption	2.5 W Max

Mechanical

LED Indicators	Power / Link Status on side of SFP module
Dimensions (H x W x L)	0.54 x 0.67 x 3.12 in (13.7 x 17.0 x 79.2 mm)
Weight	1.13 oz / 32.0 g

Environmental

Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
Relative Humidity	0 to 90%, non-condensing

AGENCY COMPLIANCE

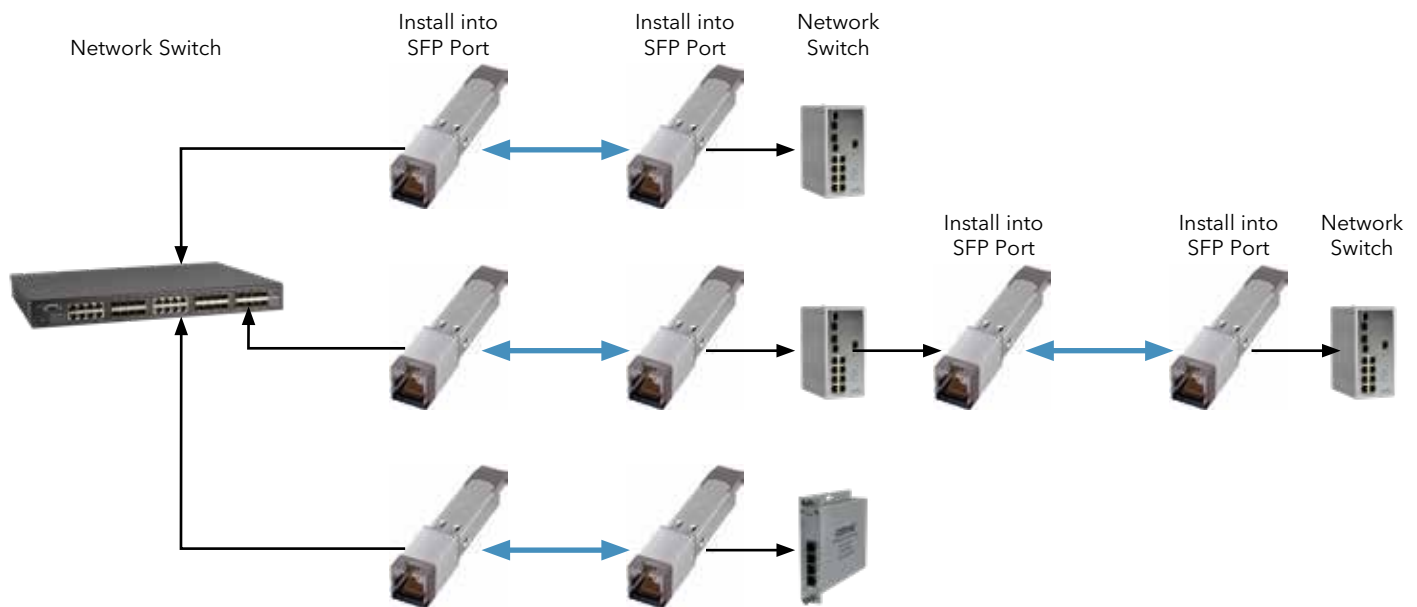


ORDERING INFORMATION

Part Number	Description
SFP-VDSL2	Industrial Long Reach Ethernet over VDSL2 SFP CO & CPE

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATION



Low Power Consumption