

MiVDSL

VDSL2 SFP for Any-PHY Platform



- Extends the 100 m (328 ft) distance limit for Ethernet connectivity via copper wire up to 3 km (9842 ft)
- Supports VDSL2, ADSL2/2+ bridged modem functionality
- Small-Form-Factor that can be plugged into any Ethernet switch with SFP ports

MiVDSL SFP provides two modifications (LRE and Telco) for different applications by customer request:

- LRE model supports end-to-end Long Reach Ethernet for CO and CPE respectively
- Telco model complies ITU-T G.99x standard with supporting AVD2 CPE mode only

MARKET SEGMENTS AND APPLICATIONS

For Industrial Ethernet market, SFP interface is popular and widely available in unmanaged and managed switches. RAD's VDSL based LRE SFP provides this market with an instant way to extend the

Ethernet connection from limitation of 100m to 3km via copper wire. The benefit for industrial Ethernet system providers, the LRE SFP can enrich their product portfolio with less effort and quick time to market. For Telco xDSL CPE or home gateway application, there are many devices that have an SFP interface which is reserved for future bandwidth expansion. By taking this advantage of the existing SFP interface, xDSL SFP module can be easily applied to the device hence the device can be adapted to use PON/xDSL/Ethernet SFP by user's bandwidth requirements.

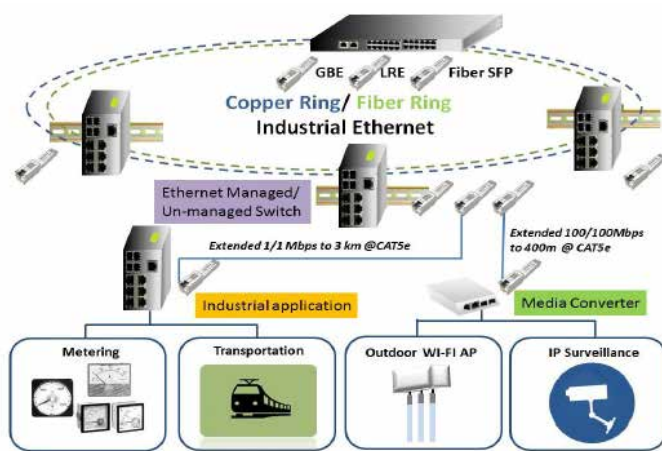


Figure 1. xDSL SFP Application Field

Specifications

HOST INTERFACE

Type

1.25 Gbps TX Serdes

Connector

RJ-45

Data Rate

100 Mbps

Range

See Table 1 for a list of profiles

GENERAL

Physical

Height: 10.5 mm (0.41 in)

Width: 13.8 mm (0.54 in)

Depth: 75.0 mm (2.95 in)

Power

3.3V

Power Consumption

17A – up to 2.3W

30A – up to 2.4W

Environment

Operating temperature:

-40 to 85°C (-40 to 185°F)

Humidity: Up to 90%, non-condensing

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Ordering

MiVDSL-L-O

LRE CO model with 8 option profiles

MiVDSL-L-R

LRE Remote CPE model

MiVDSL-T-R

Telco Remote CPE model

Table 1. Supported Profiles

Item	Profile	Rate Limit (DS/US) [Mbps]	Target Margin (DS/US) [Mbps]
Item 1	M-Sy-Auto G.inp_17/2/41	160/160	8/8
Item 2	M-NSy-Auto G.inp_17/2/41	220/110	8/8
Item 3	M-Sy-Auto I_8/2	160/160	6/6
Item 4	M-NSy-Auto I_8/2	220/110	6/6
Item 5	M-Sy-Auto G.inp_17/2/41	150/150	12/12
Item 6	M-NSy-Auto G.inp_17/2/41	200/100	12/12
Item 7	M-Sy-30a-D2.2M G.inp_17/2/41	20/20	24/24
Item 8	Annex-A-17a-eu32_I_8/2	150/50	6/6

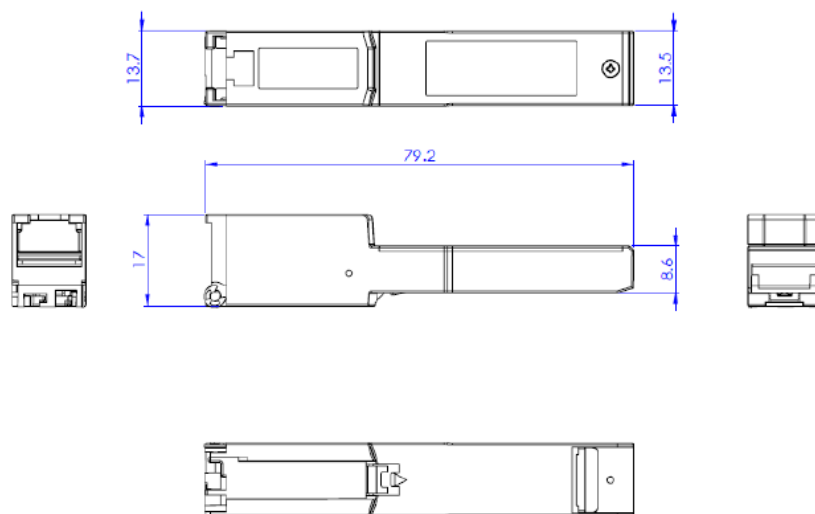


Figure 2. Mechanical Diagram

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