

VX-VEB160G1

Lite Industrial Gigabit Ethernet Copper Extender



Description

Versa Technology's VX-VEB160G1 is a Lite Industrial Grade Ultra-Speed Gigabit Ethernet Copper Extender that supports a remarkable aggregated bandwidth up to 300Mbps (Downstream: 150 Mbps/Upstream: 150 Mbps). It delivers fiber-optic like speeds on existing copper infrastructures, enabling a good alternative where fiber is not economical to deploy. The VX-VEB160G1 is equipped with a Gigabit Ethernet port (RJ-45 connector) and one VDSL2 port (RJ-45 connector) in a metal enclosure for easy installation in extended temperature environments. There are 8

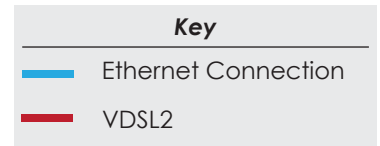
different profile settings that can be flexibly selected via the DIP switches to suit various applications and environments. The Symmetric profile can be applied as a standard Ethernet connection with equal upload and download speeds. The Asymmetric profile can be used for other services like video streaming or IP surveillance services, which requires high traffic flow in a unidirectional configuration with different upload and download speeds. The VX-VEB160G1 supports transparent LAN bridging to extend Ethernet service over UTP, Cat 5+ or Coaxial cables. With superior performance, the VX-VEB160G1 is the best high throughput Long Reach Ethernet Extender for service providers. It can deploy IP-based networking services and meet various application scenarios in harsh environments.

Features

- High speed Ethernet extension over UTP, CAT 5e/6/7 or Coaxial cables
- Support ITU-T G.993.5 G.vectoring and G.INP
- 8 selectable profile settings via DIP Switch (G.INP/Interleaved, Target SNR 6/8/12/24 dB, Symmetric/Asymmetric Modes)
- Compatible with third-party VDSL2 IP DSLAMs when operating in CPE (RT) mode
- Supports wide operating temperature range
- Cost effective bridge function to connect two Ethernet LAN
- IEEE 802.1Q VLAN tag transparent
- Easy installation via simple plug-and-play in harsh environments

Applications

Asymmetric Mode [Max. Upstream: 100Mbps | Max. Downstream: 200Mbps]



Symmetric Mode [Max. Upstream: 150Mbps | Max. Downstream: 150Mbps]



Specifications



System Information

VDSL Interface

- RJ-45 connector
- DMT Encoding
- Complying with ITU-T G993.1/G993.2/G993.5/G.997.1/G.998
- G.INP
- On-board surge protection

LAN Interface

- 1 x RJ-45 connectors
- 10/100/1000 Base-T; Auto-Negotiation, Auto-MDI/MDI-X
- Complying with IEEE 802.3 / 802.3u / 802.3z

4-Position DIP Switch

- Selectable OT or RT mode
- 8 selectable profile settings via DIP Switch: (G.INP/Interleaved, Target SNR 6/8/12/24 dB, Symmetric/Asymmetric Modes)

LED

- Power: On / Off
- LAN: Fast Ethernet / Gigabit Ethernet
- VDSL2: Mode - OT / RT
- VDSL2: Sync - Idle / Trained / Link

Power Supply

- **Option 1:** 7.5 - 30 VDC over terminal block
- (External Power Adaptor is not included)
- **Option 2:** 12 VDC over 2.1mm DC Jack
- (External Power Adaptor included)
- **Power Consumption:** 4.5 Watts maximum

Operating Temperature

- -20°C ~ 65°C

Dimension (W x H x D)

- 73.4 mm x 22.8 mm x 96.2 mm

Humidity

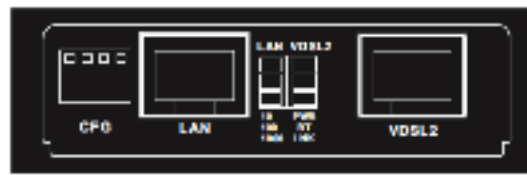
- 0% ~ 95% RH (non-condensing)

Installation

- Wall Mounting or Media Converter Chassis (optional)

Regulatory Compliance

- CE Class A
- FCC Part 15B Class A
- EN60950



Front Panel

UTP, 26AWG

Profile Setting 1: Symmetric, SNR 8dB, G.INP

Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	155	158
1,000	122	126
1,500	75	80
2,000	48	56
2,500	28	38
3,000	23	28

UTP, 26AWG

Profile Setting 1: Asymmetric, SNR 8dB, G.INP

Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	100	200
1,000	77	170
1,500	38	105
2,000	22	64
2,500	10	43
3,000	9	42
4,000	6	34

*The above performance data is for reference only, the actual line rate may vary depending on the quality of the copper wire and environmental conditions