

## 108M Ultra-Speed VDSL2 Ethernet Extender



### Introduction

Proscend compact VDSL2 Extender 108M supports VDSL2 profile 35b/30a/17a with a remarkable aggregated bandwidth of over 300Mbps. It delivers fiber optic-like speeds on existing copper infrastructure, enabling a good alternative in place where fiber is not economical to deploy. The 108M is equipped with a Gigabit Ethernet port (RJ45 connector) and one VDSL2 port (RJ45 connector) in the plastic enclosure for easy installation. The symmetric configuration can be applied as a long-reach Ethernet connection up to 3,000 meters, while an Asymmetric configuration can be used for other services like video streaming or IP surveillance services which require high traffic flow in a uni-direction configuration.

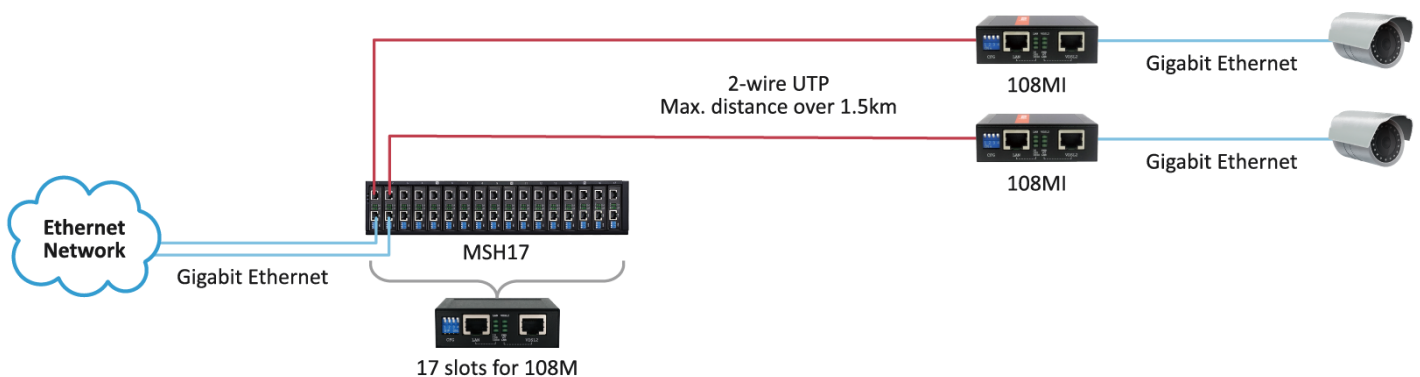
To simplify the installation and powering of multiple 108Ms at the network side, Proscend offers the MSH17 featuring a 2U-height, 19-inch shelf with 17 slots and centralized AC power input, thus customers can make good use of AC power source and shelf space in a 19-inch rack.



### Features

- Long distance Ethernet data transmission over 1.5km
- Supports VDSL2 profile 35b/30a/17a
- Ultra-Speed Ethernet extension over UTP or Cat 5e/6/7.
- Easy DIP switch configuration to best perform in various cable infrastructure
- Plug-and-play installation
- Optional centralized powered shelf MSH17 to install multiple 108Ms

### Applications



## Specifications

### 108M VDSL2 Extender

#### VDSL2 Interface

- RJ45 connector
- DMT Encoding
- On-board surge protection

#### LAN Interface

- 1 x RJ45 connector
- 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 Master(CO) or Remote(RT) mode
- Selectable Symmetric or Asymmetric mode
- Selectable G.INP or Interleave mode
- Selectable SNR High and SNR Low

#### LED

- System power
- CO/RT mode
- VDSL2 link status
- Ethernet link status

#### Power Supply

- 12~24 VDC over 2.1mm DC Jack
- Power Consumption: 4.5 Watts (Max)

#### Environment

- Operating Temperature: 0~45°C
- Storage Temperature: -40~+70°C
- Humidity: 0~95%HR (non-condensing)

#### Physical Characteristics

- Dimension (W x H x D): 94.5 x 23.0 x 72.5 mm
- Weight : 110g
- Installation: slide-in (in MSH17), desktop

#### Regulatory Compliance

- FCC Part 15 Class A

#### Performance

UTP, 26AWG		
Symmetric, SNR Low, G.INP		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	146	162
1,000	116	112
2,000	35	61
3,000	28	30

UTP, 26AWG		
Asymmetric, SNR Low, Interleave		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	64	284
1,000	59	171
2,000	31	67
3,000	10	35

**NOTE:** The above performance data is for reference only, the actual data rate may vary depending on the quality of the coaxial cable and environmental factors.

### MSH17 Shelf

#### Slot Capacity

- 17 Slide - in units

#### LED

- PWR1: On/off
- PWR2: N/A
- FAN: On/Off

#### Physical Characteristics

- Dimension (W x D x H): 476 x 199 x 88 mm
- Weight: 4 kg
- Installation: 19" Rack Mounting

#### Power Supply

- AC Power Input: 100~240 VAC, ±10%, 60Hz
- Power Consumption: 60 Watts (Max)

#### Environment

- Operating Temperature: 0~50°C
- Storage Temperature: -10~70°C
- Humidity: 10~90%HR (non-condensing)

#### Regulatory Compliance

- FCC Part 15 Class A, CE Mark

## Ordering Information

Model Name	Description
108M	Ultra-Speed VDSL2 Ethernet Extender
MSH17	17-slot VDSL2 Ethernet Extender Shelf with AC Power Input

**NOTE:** Features and specifications are subject to change without prior notice