VX120

Ultra Speed VDSL2 Ethernet Extender

KEY FEATURES

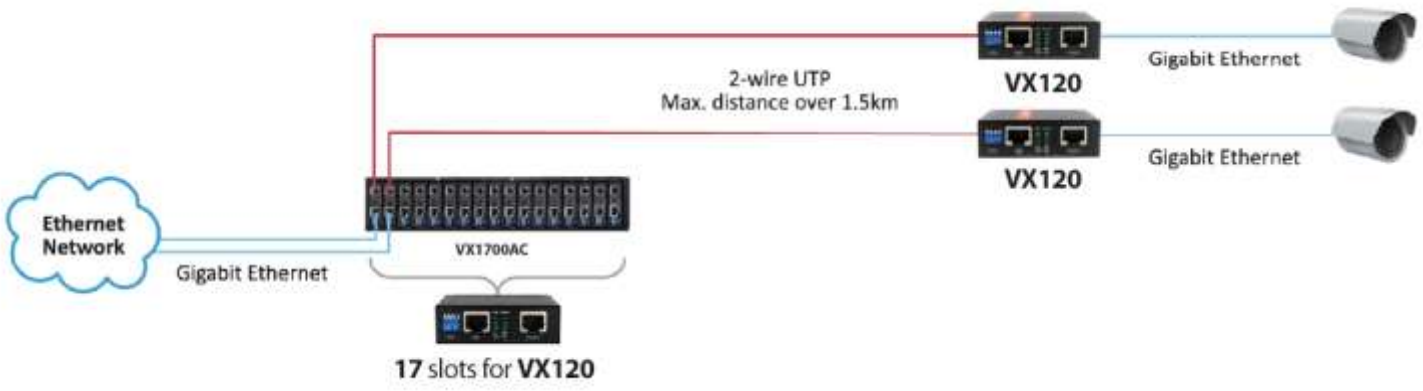
- Supports VDSL2 profile 35b/30a/17a
- Easy DIP switch configuration to best perform in various cable infrastructure
- Ultra-Speed Ethernet extension over UTP or Cat 5e/6/7
- Cost effective bridge function to connect two Ethernet networks or devices
- IEEE 802.1Q VLAN tag transparent
- Selectable a centralized powered shelf VX1700AC to install multiple VX120s

PRODUCT OVERVIEW

Xentino compact VDSL2 Extender **VX120** 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 the place where fiber is not economical to deploy. The **VX120** is equipped with a Gigabit Ethernet port (RJ45 connector) and one VDSL2 port (RJ45 connector) in the metal enclosure for easy installation in a hardened environment. 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 **VX120**s at the network side, Xentino offers the **VX1700AC** featuring a 2U-height, 19-inch shelf with 17 slots and centralized AC power input, thus customers can easily install up to 17 x **VX120** units on a 19-inch rack. Xentino **VX120** with a centralized powered shelf **VX1700AC** that provides multiple **VX120** VDSL2 Extenders in one shelf to ensure efficient power usage and make good use of space.

APPLICATION



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Specifications

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

Regulatory Compliance

- FCC Part 15 Class A

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°C ~45°C
- Humidity: 0%~95%RH (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

Performance

UTP (26AWG) – Symmetric (SNR Low - G.INP)			UTP (26AWG) – Asymmetric (SNR Low - Interleave)		
Distance (Feet)	UpStream (Mbps)	DownStream (Mbps)	Distance (Feet)	UpStream (Mbps)	DownStream (Mbps)
500	146	162	500	64	284
1000	116	112	1000	59	171
2000	35	61	2000	31	67
3000	28	30	3000	10	35

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

- Selectable CPE and CO mode via DIP switch : Two working modes are built in the same unit, which keep the flexibility of installation and easy provision of service but lower inventory of service provider
- Selectable VDSL2 profile mode (17a or 30a) : Support up to VDSL2 30a profile to ensure high data rate.
- Selectable target band plan:
  - Symmetric: Support the band plan G.997 and provide the symmetric transmission on both downstream and upstream.
  - Asymmetric: Provides highest line rate in short range in asymmetric mode.