



## VDTU2-B140

4-port Gigabit VDSL2 LAN Extender

The VDTU2-B140 is a Gigabit Ethernet Copper Extender that supports an aggregated bandwidth up to 300Mbps (Downstream: 150 Mbps/ Upstream: 150 Mbps) and delivers fiber-optic like speeds on existing copper infrastructure. The VDTU2-B140 is equipped with 4x 1000Base-T RJ-45 ports and 1x VDSL2 RJ-45 or 2-PIN Terminal Block. Built in a metal enclosure, it provides for easy installation in harsh environments. Eight different profile settings can be selected via dip switches to flexibly suit various applications and environments. Symmetric profiles can be applied as a standard Ethernet connection, while Asymmetric profiles can be used for other services such as Video streaming or IP surveillance services which require high traffic flow in one direction. The VDTU2-B140 supports transparent LAN bridging to extend Ethernet service over UTP, Cat 5+ cables or simple single pair telephone cable. It is the best high throughput Long Reach Ethernet Extender for service providers when deploying their IP-based networking services to meet various application scenarios in harsh environments.

### Features

- High speed Ethernet extension over UTP, CAT 5e/6/7.
- Supports ITU-T G.993.5 G.vectoring and G.INP
- Selectable 8 different profile settings via Dip Switch (G.INP/ Interleaved, Target SNR 6/8/12/24 dB, Symmetric/Asymmetric Modes)
- Compatible with third-party VDSL2 IP DSLAM when operates in CPE(RT) mode
- Cost effective bridge function to connect two Ethernet LAN
- IEEE 802.1Q VLAN tag transparent
- Easy installation via simple plug-and-play in harsh environment

### Specifications

<b>VDSL Interface</b>	RJ-45 or 2-PIN Terminal Block
	DMT Encoding
	Complying with ITU-T G993.1/G993.2/993.5/G.997.1/G.998 G.INP
	On-board surge protection
<b>LAN Interface</b>	4 x RJ-45
	10/100/1000 Base-T; Auto-Negotiation, Auto-MDI/MDI-X. Complying with IEEE 802.3/802.3u/802.3z
<b>4-position DIP Switch</b>	Selectable Master (OT) or Remote (RT) mode
	Selectable 8 different profile settings via Dip Switch (G.INP/ Interleaved, Target SNR 6/8/12/24 dB, Symmetric/Asymmetric Modes)
<b>LED</b>	Power: On/Off
	LAN: Fast Ethernet/Gigabit Ethernet
	VDSL2: Mode – CO (OT) / CPE (RT)
	Sync - Idle / Trained / Link
<b>Power supply</b>	VDTU2-B140: 12 VDC with Commercial Grade External Power Adaptor
	VDTU2-B140-DC : 12~24 VDC T2 terminal block
	Power Consumption: 4.5 Watts maximum
<b>Dimension :</b>	130 x 28 x 94.7mm (WxDxH)
<b>Operating Temperature:</b>	-20°C ~65°C
<b>Humidity:</b>	0%~95%RH (non-condensing)

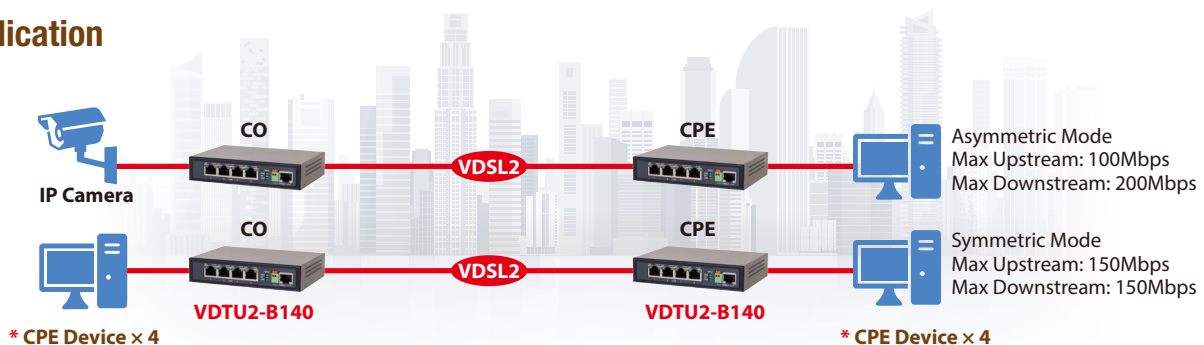
**Standards and Certifications** CE Class A  
FCC Part 15B Class A

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.

### Application



### Ordering Information

Model Name	Description
VDTU2-140	4-port Gigabit VDSL2 LAN Extender with AC Power Adapter
VDTU2-140-DC	4-port Gigabit VDSL2 LAN Extender (12~24 VDC T2 Terminal Block)

13 VDSL2 LAN Extender VDTU2-B140