

VDSL2 Ethernet Extender Kit, Network Extension Up to 0.6mi (1km), Long Range LAN Repeater over RJ11/CAT5e/CAT6 Cabling, Up to 300Mbps

**Product ID:** VDSL-LAN-EXTENDER-1G



Extend a network over VDSL2, using Cat5e (or better) UTP Cabling or Single-Pair (or better) Telephone Wire at distances up to 0.6mi (1km).

Extend a network over VDSL2 using UTP, CAT5e/6 or RJ11 cabling over distances up to 0.6mi (1km). Speeds of up to 300 Mbps (aggregated) are available at shorter distances. Supports VDSL2 35b/30a/17a and features ITU-T G.993.5 G.Vectoring and G.INP technologies.

The installation can be customized by using DIP switches. Choose between Master or Remote mode, Symmetric or Asymmetric mode, G.INP or Interleave mode, and fine-tune SNR with High and Low options for optimal performance. The Gigabit Ethernet Extender has LEDs that provide a visual indication of network status, including LAN speed, link status, power, and remote/master mode, allowing IT administrators to monitor and assess network connectivity.

The Long-Range LAN Extender can be mounted on a wall, using the included hardware, or installed on a shelf or other surface. The kit includes two power adapters, one for each VDSL Extender. The extender works with third-party VDSL2 IP DSLAMs in CPE (RT) mode and extends the network for applications such as remote office or branch locations or IP-based video solutions. The 802.1Q VLAN tag transparency preserves VLAN-tagged traffic across the extension.

## Certifications, Reports and Compatibility



## Applications

- Establish reliable data connections for a variety of applications, including process monitoring, control systems, and automation
- Extend the reach of VDSL2 for IP-based video surveillance systems
- Connect remote offices or branch locations to the main office infrastructure

## Features

- **VDSL2 EXTENDER:** Extend a network over VDSL2, using UTP, CAT5e/6, or RJ11 cabling, at distances up to 0.6mi (1km); Up to 300Mbps (aggregated) at shorter distances; Supports VDSL2 35b/30a/17a, ITU-T G.993.5 G.Vectoring, and G.998.4 G.INP standards
- **8 PROFILE CONFIGURATIONS:** Customize the installation with DIP switch selectable settings; Choose between Master or Remote mode, Symmetric or Asymmetric mode, G.INP or Interleave mode, and fine-tune SNR with High and Low options for optimal performance
- **INTUITIVE INDICATORS:** Gigabit Ethernet Extender features four LEDs that provide a visual indication of network status, including LAN speed, link status, power, and remote/master mode, allowing IT administrators to monitor and assess network connectivity
- **VERSATILE MOUNTING OPTIONS:** TAA-compliant Long Range LAN Booster can be mounted on a wall using the included mounting hardware, or placed on a shelf or other surface; Includes two power adapters, one for each VDSL Extender unit
- **APPLICATIONS:** Works with third-party VDSL2 IP DSLAMs in CPE (RT) mode; Extends a network to remote areas, supporting applications such as video surveillance/digital signage; 802.1Q VLAN tag transparency preserves VLAN-tagged traffic across the extension

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## Hardware

Warranty	2 Years
Ports	1
Cabling	Cat 5e UTP or better
Rack-Mountable	No
Industry Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3z IEEE 802.1Q VDSL2 Profiles 35b/30a/17a ITU-T G993.1/G993.2/993.5/G.997.1/G.998.4 (G.INP)

Chipset ID                      RTL8685FB-CG

**Performance**

Maximum Data Transfer Rate	300Mbps (150 upstream/150 downstream)
Max Distance	1 km (0.6 mi)
Auto MDIX	Yes
Jumbo Frame Support	No
Frequency Range	Up to 30MHz
General Specifications	On-board Surge Protection
MTBF	50,000 Hours

**Connector(s)**

Local Unit Connectors	2 - RJ-45
Remote Unit Connectors	2 - RJ-45

**Software**

OS Compatibility	No Drivers or Software Required
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**Special Notes / Requirements**

Note	Maximum distance was achieved using 26AWG UTP cabling
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**Indicators**

LED Indicators	1 - Power
	3 - LAN: 10/100/100Mbps
	1 - Remote/Master Mode
	1 - VDSL Link

**Power**

Power Source	2 AC Adapters Included
Input Voltage	100 - 240 AC
Input Current	0.5
Output Voltage	12V DC

Output Current	1A
Center Tip Polarity	Positive
Plug Type	M
Power Consumption (In Watts)	3.8W

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#### Environmental

Operating Temperature	0C to 40C (32F to 104F)
Storage Temperature	-10C to 70C (14F to 158F)
Humidity	0% ~ 90% RH (non-condensing)

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#### Physical Characteristics

Color	Black
Material	Plastic
Product Length	3.8 in [9.7 cm]
Product Width	2.9 in [7.4 cm]
Product Height	0.9 in [2.3 cm]
Weight of Product	4.1 oz [116.0 g]

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#### Packaging Information

Package Quantity	1
Package Length	7.1 in [18.0 cm]
Package Width	5.9 in [15.0 cm]
Package Height	5.1 in [13.0 cm]
Shipping (Package) Weight	1.5 lb [0.7 kg]

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#### What's in the Box

Included in Package	2 - VDSL Extender
	2 - Mounting Bracket Kits
	2 - Power Supply

1 - Quick-Start Guide

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***\*Product appearance and specifications are subject to change without notice.***

