



VDTU2A-301

10/100Base-TX LAN Extender

The VDTU2A-301 is our lowest cost LAN extension solution using the G993.1/993.2 VDSL2 technology and providing up to 100Mbps throughput with only a single copper wire pair. A LAN extender is a device that forwards traffic between LANs transparently to higher network-layer protocols over distances that far exceed the distance limitations of standard Ethernet. A LAN is a high-speed data network (usually employing Ethernet technology) that connects computer workstations, printers, servers, and other devices. Designed specifically for LAN to LAN extension and supporting both symmetrical and asymmetrical transmission at up to 100/75Mbps within 300 meters or 10/10Mbps rate at 1000 meters, this is a perfect solution to extend a LAN to an adjacent building, garage or any location outside of the 100 meter reach of Ethernet UTP.

Feature

- Cost effective bridge function to connect two Ethernet LANs
- 100/75Mbps @ 300m (980 Ft)
- 10/10Mbps @ 1km (3300 Ft)
- Supports flow control via Pause frame or back pressure
- 802.1Q VLAN tag transparent
- Selectable CPE and CO mode via DIP switch
- Selectable fast and interleaved mode
- Selectable target band plan
- Selectable target SNR margin 9dB or 6dB

Specifications

LAN Interface	Complies with IEEE 802.3 10Base-T and 802.3u 100Base-TX Connector : RJ45 MTU : 1536 Bytes	Power Consumption	4.2W
VDSL2 Interface	Complies with ITU-T G993.1/993.2/ G997.1 Connector : RJ45 DMT encoding On-board surge protection	Dimensions	97 x 73 x 23mm (D x W x H)
4-position DIP Switch	Selectable CO or CPE mode Selectable fast or interleave mode (Impulse noise protection) Selectable Band plan (Symmetric or Asymmetric) Selectable target SNR margin (6dB or 9dB)	Weight	80g
Indicator	LAN : Act/Link, 10/100Mbps, Half/Full duplex VDSL : CO/CPE, Idle/Trained/Link, Power	Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Standard	ITU-T G.993.1, 993.2, IEEE802.3, 802.3u	Humidity	10 ~ 90% non-condensing
Power	DC 12V via AC switching adapter	Certification	CE, FCC, RoHS compliant
		MTBF	50,000 hrs
		Emission	EN 55022: 2006 + A1:2007, Class B AS/NZS CISPR 22: 2006, Class B EN 61000-3-2: 2006 + A1: 2009 + A2: 2009, Class A EN 61000-3-3: 2008
		Immunity	EN 55024: 1998 + A1: 2001 + A2:2003 IEC 61000-4-2: 2008 ED.2.0 IEC 61000-4-3: 2006+A1: 2007 ED.3.0 IEC 61000-4-4: 2004+A1: 2010 ED.2.0 IEC 61000-4-5: 2005 ED.2.0 IEC 61000-4-6: 2008 ED.3.0 IEC 61000-4-8: 2009 ED.2.0 IEC 61000-4-11: 2004 ED.2.0

Application

Rack to Standalone Solution



Standalone to Standalone Solution



Ordering Information

Model Name	Description
VDTU2A-301	1x 10/100Base-TX LAN Extender
FMC-CH17-AC/DC/AD	2U, 17-slot FMC converter Chassis with AC, DC or AD Power

VDTU2A -
 Example: VDTU2A - 301

Chassis Power Type
 FMC-CH17 -
 Example: FMC-CH17 - AD