

IVC-4011-T-V2

5-Port Industrial Ethernet Extender over VDSL2, 4*10/100/1000Tx and 1*RJ11 / BNC; Version 2 Hardware



FEATURES

- ▶ IP30 metal case protection, DIN Rail and wall mount design
- ▶ ITU-T G.993.5 G.Vectoring and G.INP
- ▶ Upstream/Downstream bandwidth up to 200/100Mbps
- ▶ CO/CPE mode selectable via DIP switch
- ▶ Selectable target band plan and SNR margin
- ▶ Uses existing RG59/RG6 coaxial cable
- ▶ Used in pairs to extend point-to-point connection up to 1.2km
- ▶ Supports IEEE 802.1Q VLAN tag transparency
- ▶ Supports 6000 VDC Ethernet ESD protection
- ▶ 12 to 48V DC, 24V AC
- ▶ Redundant power with polarity reverse protect function
- ▶ Support extensive LED indicators for network diagnostics
- ▶ 5-Year warranty



INTRODUCTION

Antaira Technologies' IVC-4011-T-V2 is an Industrial Ethernet Extender that has a switching architecture with 4 RJ-45 10/100/1000Mbps Ethernet ports and one asymmetric or symmetric Ethernet over VDSL – the VDSL port can be RJ-11 or BNC connector. The embedded BNC or RJ-11 port is allowing customers to continue using their existing network with the current coaxial cable or telephone wire without the need of rewiring.

The IVC-4011-T-V2 provides a high level of immunity to electromagnetic interference and heavy electrical surges typical of environments like plant floors or in curbside traffic control cabinets. The IVC-4011-T-V2 is designed with an IP-30 metal case with DIN Rail or Wall Mount support. It also can operate under any extreme ambient weather temperature range from -40 to 75°C.

Without spending extra costs, users can easily re-deploy a new local Internet in any residential areas, public service facilities, campuses, and hospitality environments by applying the IVC-4011-T-V2 on the original network structure.

SPECIFICATIONS

TECHNOLOGY		PORT INTERFACE	
Standards Compliance	<ul style="list-style-type: none"> • IEEE 802.3 Ethernet • IEEE 802.3u Fast Ethernet • IEEE 802.3ab Gigabit Ethernet • ITU-T G.993.1 VDSL • ITU-T G.997.1 • ITU-T G.993.2 VDSL2 (Profile 17a/30a Support) • ITU-T G.993.5 G.Vectoring and G.INP • ITU-T G.998 	Ports	<ul style="list-style-type: none"> • 10/100/1000Base-TX: 4 RJ-45, auto negotiation and auto-MDI / MDI-X • Coaxial: 1 BNC, female connector • Phone-Line: 1 RJ-11, female connector
VDSL Compliance	<ul style="list-style-type: none"> • VDSL-DMT • ITU-T G.993.1 VDSL • ITU-T G.997.1 • ITU-T G.993.2 VDSL2 (Profile 17a/30a Support) • ITU-T G.993.5 G. Vectoring • ITU-T G.998 G.INP 	LED Indicators	Power 1/Power 2: Green Fault: Red 1000BASE-T LNK/ACT: Green 10/100BASE-TX LNK/ACK: Green VDSL: Green CO: Green CPE: Green
ADSL Compliance	<ul style="list-style-type: none"> • Capable of ADSL2/2+ standard • ITU G.992.3 G.dmt.bis • ITU G.992.5 G.dmt.bisplus • Data Rate: Up to 24Mbps 	DIP Switch	4 Position DIP Switch
SWITCH PROPERTIES		Cabling	<ul style="list-style-type: none"> • Coaxial cable: 75 ohm RG-6/U cable, less than 12Ω/1000 ft • RG-59/U cable, less than 30Ω/1000 ft. Max. 1.2km with data transmission (3.937ft.)) • Twisted-pair telephone wires (AWG-24 or better) up to 1.2km (3.937ft.)
Functionality	<ul style="list-style-type: none"> • Select CO or CPE mode • Select G.INP or Interleaved mode • Select Band Profile (Asymmetric or Symmetric) • Select SNR of 12dB or 8dB 	MECHANICAL CHARACTERISTICS	
Switch Processing	Store-and-Forward	Housing	Metal, IP30 protection
Address Table	2K	Dimension	32 x 87.8 x 135 mm (W x H x D)
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex	Weight	Unit: 0.41 lb Shipping: 0.71 lb
Jumbo Size	9K bytes	Mounting	DIN-Rail mounting, Wall mounting
		POWER REQUIREMENT	
		Input Voltage	DC Input: Dual 12~48V DC, 0.4A max. 24V AC
		ESD Protection	6KV DC
		System Power Consumption	5.7 Watts
		ENVIRONMENTAL LIMITS	
		Operating Temperature	-40°C to 75°C
		Storage Temperature	-40°C ~ 85°C
		Ambient Relative Humidity	5 to 90%, (non-condensing)
		REGULATORY APPROVALS	
		Certifications	FCC Part 15 Class A, CE
		Warranty	5 Years

PERFORMANCE

Upstream / Downstream Performance Table with RJ11 Cable	CO DIP	Interleave (Upstream/Downstream)			
	Switch	Asymmetric		Symmetric	
	Distance (meters)	8dB	12dB	8dB	12dB
	200	93/190	85/174	143/148	132/136
	400	67/164	59/146	118/119	103/104
	600	38/116	28/94	71/75	59/60
	800	24/59	22/49	49/36	38/27
	1000	9/45	7/40	21/25	15/24
	1200	6/30	3/28	16/24	6/20
	CO DIP	G.INP (Upstream/Downstream)			
	Switch	Asymmetric		Symmetric	
	Distance (meters)	8dB	12dB	8dB	12dB
	200	92/190	85/174	143/148	129/136
	400	68/165	57/144	116/115	99/96
	600	37/112	28/94	71/69	61/55
	800	27/56	22/49	49/32	39/24
	1000	9/46	7/40	19/27	15/26
	1200	5/31	3/28	16/23	12/20
Upstream / Downstream Performance Table with Coaxial Cable	CO DIP	Interleave (Upstream/Downstream)			
	Switch	Asymmetric		Symmetric	
	Distance (meters)	8dB	12dB	8dB	12dB
	200	84/184	75/169	131/144	125/128
	400	49/148	54/128	93/118	89/99
	600	36/100	26/80	77/66	64/53
	800	21/50	17/39	44/30	37/26
	1000	7/42	5/29	20/25	19/28
	1200	5/27	3/28	13/27	15/20
	CO DIP	G.INP (Upstream/Downstream)			
	Switch	Asymmetric		Symmetric	
	Distance (meters)	8dB	12dB	8dB	12dB



	200	89/185	79/166	140/144	117/123
	400	57/155	47/137	104/113	89/96
	600	33/75	31/73	62/73	52/43
	800	17/66	13/45	40/29	39/24
	1000	13/59	6/38	20/27	15/26
	1200	4/32	3/22	14/20	12/20

ORDERING INFORMATION

IVC-4011-T-V2 5-Port Industrial Ethernet Extender over VDSL2, 4*10/100/1000Tx and 1*RJ11 / BNC; Version 2 Hardware

*****NOTE: Please note that the IVC-4011-T-V2 is not compatible with EVC-3001 and IVC-4011-T.**

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