

# 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



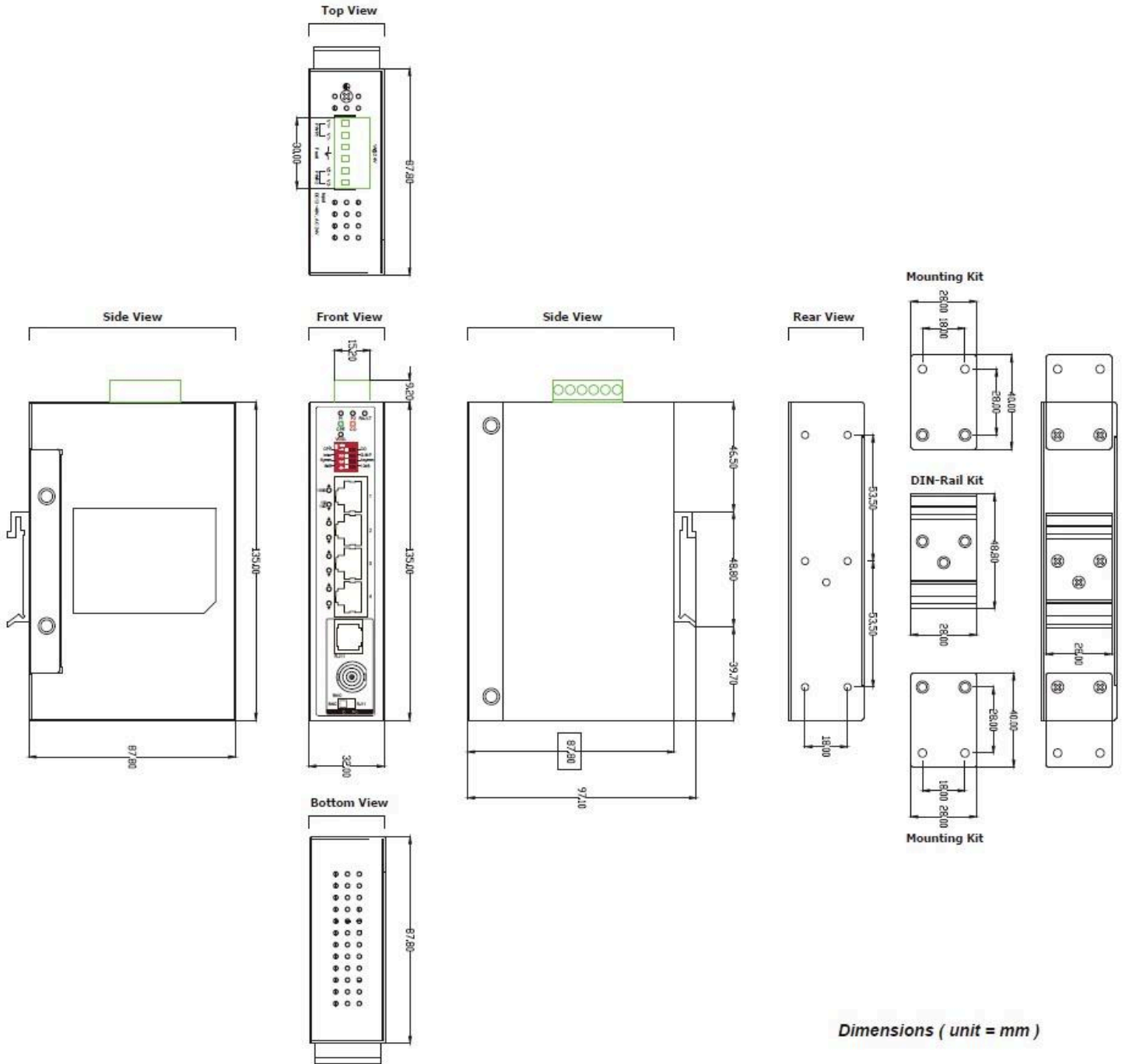
## INTRODUCTION

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 port– 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.

# DIMENSIONS



Dimensions ( unit = mm )

## SPECIFICATIONS

TECHNOLOGY	
<b>Standards Compliance</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 Ethernet</li> <li>• IEEE 802.3u Fast Ethernet</li> <li>• IEEE 802.3ab Gigabit Ethernet</li> <li>• ITU-T G.993.1 VDSL</li> <li>• ITU-T G.997.1</li> <li>• ITU-T G.993.2 VDSL2 (Profile 17a/30a Support)</li> <li>• ITU-T G.993.5 G.Vectoring and G.INP</li> <li>• ITU-T G.998</li> </ul>
<b>VDSL Compliance</b>	<ul style="list-style-type: none"> <li>• VDSL-DMT</li> <li>• ITU-T G.993.1 VDSL</li> <li>• ITU-T G.997.1</li> <li>• ITU-T G.993.2 VDSL2 (Profile 17a/30a Support)</li> <li>• ITU-T G.993.5 G. Vectoring</li> <li>• ITU-T G.998 G.INP</li> </ul>
<b>ADSL Compliance</b>	<ul style="list-style-type: none"> <li>• Capable of ADSL2/2+ standard</li> <li>• ITU G.992.3 G.dmt.bis</li> <li>• ITU G.992.5 G.dmt.bisplus</li> <li>• Data Rate: Up to 24Mbps</li> </ul>

SWITCH PROPERTIES	
<b>Functionality</b>	<ul style="list-style-type: none"> <li>• Select CO or CPE mode</li> <li>• Select G.INP or Interleaved mode</li> <li>• Select Band Profile (Asymmetric or Symmetric)</li> <li>• Select SNR of 12dB or 8dB</li> </ul>
<b>Switch Processing</b>	Store-and-Forward
<b>Address Table</b>	2K
<b>Flow Control</b>	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
<b>Jumbo Size</b>	9K bytes

PORT INTERFACE	
<b>Ports</b>	<ul style="list-style-type: none"> <li>• 10/100/1000Base-TX: 4 RJ-45, auto negotiation and auto-MDI / MDI-X</li> <li>• Coaxial: 1 BNC, female connector</li> <li>• Phone-Line: 1 RJ-11, female connector</li> </ul>
<b>LED Indicators</b>	Power 1/Power 2: Green Fault: Red 1000BASE-T LNK/ACT: Green 10/100BASE-TX LNK/ACK: Green VDSL: Green CO: Green CPE: Green
<b>DIP Switch</b>	4 Position DIP Switch
<b>Cabling</b>	<ul style="list-style-type: none"> <li>• 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.)</li> <li>• Twisted-pair telephone wires (AWG-24 or better) up to 1.2km (3.937ft.)</li> </ul>

MECHANICAL CHARACTERISTICS	
<b>Housing</b>	Metal, IP30 protection
<b>Dimension</b>	32 x 87.8 x 135 mm (W x H x D)
<b>Weight</b>	Unit: 0.41 lb Shipping: 0.71 lb
<b>Mounting</b>	DIN-Rail mounting, Wall mounting

POWER REQUIREMENT	
<b>Input Voltage</b>	DC Input: Dual 12~48V DC, 0.4A max. 24V AC
<b>ESD Protection</b>	6KV DC
<b>System Power Consumption</b>	5.7 Watts

ENVIRONMENTAL LIMITS	
<b>Operating Temperature</b>	-40°C to 75°C
<b>Storage Temperature</b>	-40°C ~ 85°C
<b>Ambient Relative Humidity</b>	5 to 90%, (non-condensing)

REGULATORY APPROVALS	
<b>Certifications</b>	FCC Part 15 Class A, CE
<b>Warranty</b>	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**

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

TO LEARN MORE - CONTACT:



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