

IVC-4011-T

5-Port Industrial Ethernet Extender over VDSL2

- 4*10/100Tx + 1* RJ11 / BNC



Features

- ▶ IP-30 metal case protection, DIN Rail and Wall Mount design
- ▶ -4*10/100Tx RJ45 Port, 1*RJ11 or 1*BNC
- ▶ VDSL2 Standalone transceiver for simple bridge modem application
- ▶ All-in-One design, Master / Slave selectable via DIP Switch
- ▶ Defines Asymmetric (Band Plan 998) and Symmetric band plans for transmission of Upstream and Downstream signals
- ▶ DMT (Discrete Multi-Tone) line coding
- ▶ Selectable Target Band Plan and Target SNR Margin
- ▶ Supports up to 1536 bytes packet size, 802.1Q VLAN tag transparent
- ▶ 40 to 75 degrees C operating temperature
- ▶ 12~48V DC redundant power design w/Polarity reverse protection
- ▶ Support extensive LED indicators for network diagnostics
- ▶ 5 year Warranty

► Overview

Ideal integration of Antaira IVC-4011-T Industrial Ethernet Extender

Antaira new Industrial Ethernet Extender IVC-4011-T has a switching architecture with 4 RJ-45 10/100Mbps 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. Furthermore, the IVC-4011-T is compatible with Antaira EVC-3001 and EVC-3010.

Benefits

The IVC-4011-T provides a high level of immunity to electromagnetic interference and heavy electrical surges typical of environments like plant floors or in curb side traffic control cabinets. The IVC-4011-T designs with 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 degree C.

Without spending extra cost, users can easily re-deploy a new local Internet in any residential areas, Public Service Facilities, Campus, and Hospitality Environment by applying the IVC-4011-T on the original network structure.

► Specifications

Hardware Specifications

Ports	<ul style="list-style-type: none"> • 10/100Base-TX: 4 RJ-45, auto negotiation and auto-MDI / MDI-X • Coaxial: 1 BNC, female connector • Phone-Line: 1 RJ-11, female connector
DIP Switch	4 Position DIP Switch
Functionality	<ul style="list-style-type: none"> • Master / Slave mode select • Selectable fast and interleaved mode • Selectable target Band Plan • Selectable target SNR mode
LED Indicators	<ul style="list-style-type: none"> • System <ul style="list-style-type: none"> Power 1 (Green) Power 2 (Green) Fault (Green) • VDSL2 <ul style="list-style-type: none"> Master (Green) Slave (Green) ACT (Green) Sync. (Green) • 10/100Mbps port <ul style="list-style-type: none"> LNK/ACT (Green)
Cabling	<ul style="list-style-type: none"> • Ethernet : 10Base-T: 2-pair UTP Cat.3, 4 and 5 up to 100m (328ft) • Ethernet : 100Base-TX: 2-pair UTP Cat.5, 5e and 6 up to 100m (328ft) • Coaxial Cable: 50ohm, RG58A / U, RG58C / U, RG58 / U or equivalent; 75ohm, RG-6 (Distance up to 2.4km) • Twisted-pair telephone wires (AWG24 or better) up to 1.4km

Protocol

Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x full duplex pause frame flow-control
Encoding	<ul style="list-style-type: none"> • DMT (Discrete Multi-Tone) line coding <ul style="list-style-type: none"> - ITU-T G.997.1 - ITU-T G.993.1 - ITU-T G.993.2 (Profile 17a Support)

Performance

	Asymmetric	Symmetric
	200m -> 99/63Mbps 400m -> 91/48Mbps 600m -> 71/32Mbps 800m -> 53/18Mbps 1000m -> 38/8Mbps 1200m -> 33/5Mbps 1400m -> 28/2Mbps	200m -> 91/99Mbps 400m -> 74/79Mbps 600m -> 54/51Mbps 800m -> 38/34Mbps 1000m -> 27/21Mbps 1200m -> 24/15Mbps 1400m -> 21/10Mbps
RJ11 (Phone Line)	Asymmetric	Symmetric
	200m -> 99/65Mbps 400m -> 99/64Mbps 600m -> 97/59Mbps 800m -> 94/51Mbps 1000m -> 84/45Mbps 1200m -> 73/37Mbps 1400m -> 61/28Mbps 1600m -> 54/20Mbps 1800m -> 48/13Mbps 2000m -> 38/9Mbps 2200m -> 35/6Mbps 2400m -> 31/4Mbps	200m -> 95/99Mbps 400m -> 92/97Mbps 600m -> 81/82Mbps 800m -> 71/70Mbps 1000m -> 60/57Mbps 1200m -> 50/44Mbps 1400m -> 42/33Mbps 1600m -> 37/27Mbps 1800m -> 29/22Mbps 2000m -> 23/21Mbps 2200m -> 19/17Mbps 2400m -> 19/13Mbps
BNC (Coaxial Cable)		

Power Requirements

Input Voltage	12 ~ 48VDC, Redundant Input
Reverse Polarity Protection	Yes
Power Consumption	5.64Watts / 19BTU

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions	135 x 87.8 x 32 mm
Weight	495g
Mounting	DIN-Rail mounting, wall mounting

Environmental Limits

Operating Temperature	-40° to 75° C (-40° to 167° F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 90%, (non-condensing)

Regulatory Approvals

Compliance	FCC Part 15 Class A, CE
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Warranty	5 Years

► Ordering Information

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- with 4*10/100Tx + 1*RJ11 or BNC

Relative Models

EVC-3001 Ethernet over VDSL2 Converter
- with 1*RJ-45, 1*VDSL2 / RJ-11, 1*Phone-17a

EVC-3010 Ethernet over Coaxial Extender
- with 1*RJ-45, 1*BNC

Optional Accessories

DR-45-48 DIN-Rail Power Supply – 48VDC