EVC-3010

Ethernet over Coaxial Extender

- 1*10/100Tx + 1*BNC

Features

- Compact design **Profile 17a** CO / CPE bridge solution
- **1*10/100Tx Fast Ethernet Port**
- 1*BNC Ports for over Coaxial
- **Standalone transceiver for simple bridge modem application**
- **All-in-One design, CO / CPE e selectable via DIP Switch**
- **Defines Asymmetric (Plan 998) band and Symmetric (Plan 997) 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**
- **Support extensive LED indicators for network diagnostics**
- Co-work with Antaira Media Chassis (FCU-RACK16 series)
- **2 year Warranty**

Overview

EVC-3010 - Ethernet Extension over Coaxial

Antaira new EVC-3010 is a high-performance Ethernet-over-Coaxial extender that converts between twisted pair (UTP) and coaxial cable for every kind of IP Ethernet application. It offers the absolutely fastest data transmission speed over existing coaxial cable without the need of rewiring. On the UTP side, the EVC-3010's RJ-45 connector supports CAT-5/5e or above wiring with the distance up to 100 meters; on the coaxial cable side, the BNC connector supports 50ohm or 75ohm coaxial cable with the distance up to 3km. It extends the distance for existing analog system to full digital system by transmitting the Ethernet data from the coaxial cable for any type of IP network device such as IP camera, wireless access point, NVR system and digital signage. It allows users to reuse the existing facilities' coaxial cable infrastructure to Ethernet and transmit data to the Internet and sharing the Internet Line in the wide network area at a minimum cost.

Applications

MTU / MDU / Hospitality Solution

The EVC-3010 allows users easy to apply Multi-Unit Buildings applications, such as residential buildings (MDU-multi-dwelling units), commercial buildings (MTU-multi-tenant units), hotels, campus, or hospitals.

Community / Campus Surveillance and Security over IP

The EVC-3010 helps the community, campus and enterprises to upgrade analog camera system to IP camera surveillance without using additional new wires. It is easy to deploy and extend the distance with signal conversion by Just plug-in the UTP cable of IP camera to Ethernet port and the existing coaxial cable to the BNC connector.

Commercial Location Media Network and Electronic Billboards

The EVC-3010 provides an immediate and interactive broadcasting system over direct Ethernet connection instead of constant data exchange by human resource; plus it can also be integrated with IPTV and Web TV. It allows Administrators can interrupt the TV program and commercials through the remote management.

Specifications

Hardware Specifications	
Ports	• 10/100Base-TX: 1 RJ-45, auto negotiation and auto-MDI / MDI-X • Coaxial: 1 BNC, female connector
DIP Switch	4 Position DIP Switch
Functionality	• CO / CPE mode select • Selectable fast and interleaved mode • Selectable target band plan • Selectable target SNR mode
LED Indicators	• One Power • 3 for Coaxial (BNC): - Green, LNK - Green, CO mode - Green, CPE mode • 2 for per RJ-45 10/100Base-TX port - Green, LNK / ACT - Green, Speed
Cabling	• 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 3.0km)

Protocol	
Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x full duplex pause frame flow-control
Encoding	•DMT (Discrete Multi-Tone) line coding - ITU-T G.997.1 - ITU-T G.993.1 - ITU-T G.993.2 (Profile 17a Support)

Performance		
	Asymmetric	**Symmetric**
Performance	200m ->100/65Mbps 400m ->100/64Mbps 600m ->100/59Mbps 800m ->100/53Mbps 1000m -> 94/44Mbps 1200m -> 84/36Mbps 1400m -> 74/28Mbps 1600m -> 66/19Mbps 1800m -> 60/14Mbps 2000m -> 44/15Mbps 2200m -> 35/12Mbps 2400m -> 32/10Mbps 2600m -> 29/8Mbps 2800m -> 27/6Mbps 3000m -> 25/5Mbps	200m ->99.7/100Mbps 400m ->100/100Mbps 600m -> 86/91Mbps 800m -> 79/80Mbps 1000m -> 69/66Mbps 1200m -> 60/52Mbps 1400m -> 51/41Mbps 1600m -> 45/36Mbps 1800m -> 40/29Mbps 2000m -> 27/26Mbps 2200m -> 23/24Mbps 2400m -> 22/21Mbps 2600m -> 20/18Mbps 2800m -> 18/15Mbps 3000m -> 17/13Mbps

Power Requirements	
Input Voltage	5VDC 2A
Power Consumption	6.3 Watts / 21 BTU (maximum)

Mechanical Characteristics	
Dimensions	97 x 69 x 26 mm
Weight	0.2 kg

Environmental Limits	
Operating Temperature	0~50 degrees C
Storage Temperature	-10~70 degrees C
Operating Humidity	5~90%, relative humidity, non-condensing
Storage Humidity	5~90%, relative humidity, 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	2 Years

Ordering Information

EVC-3010 Ethernet over Coaxial Converter
- with 1*RJ-45, 1*BNC-17a

Relative Models

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

IVC-4011-T 5-Port Industrial Ethernet Extender over VDSL2
- with 4*10/100Tx + 1*RJ11 or BNC

Optional Models

FCU-RACK16S 19” Rackmount 16-Slot Lite Universal Media Converter Chassis, 110/240VAC

FCU-RACK16-AC 19” Rackmount 16-Slot Universal Media Converter Chassis, w/1*AC Power Module

FCU-RACK-AC-PWR Additional Redundant AC Power Module for FCU-RACK-16-AC

FCU-RACK16-DC 19” Rackmount 16-Slot Universal Media Converter Chassis, w/1*DC Power Module

FCU-RACK-DC-PWR Additional Redundant AC Power Module for FCU-RACK-16-DC