EVC-3101

Ethernet over VDSL2 Converter - 1*10/100/1000Tx + 1*VDSL2/RJ11, 1*Phone - 30a

Features

► **CO/CPE mode selectable via DIP switch**
► **1*RJ11 connector for VDSL port with VDSL connection**
► **Compact design VDSL2 profile 30a CO/CPE bridge solution**
► **1*10/100/1000Base-Tx LAN port**
► **Supports voice and data transmission simultaneously**
► **VDSL2 standalone transceiver for simple bridge modem application**
► **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 9K bytes packet size IEEE 802.1Q VLAN tag transparent**
► **Support extensive LED indicators for network diagnostics**
► **Compatible with Antaira Media Chassis (FCU-RACK16 series)**
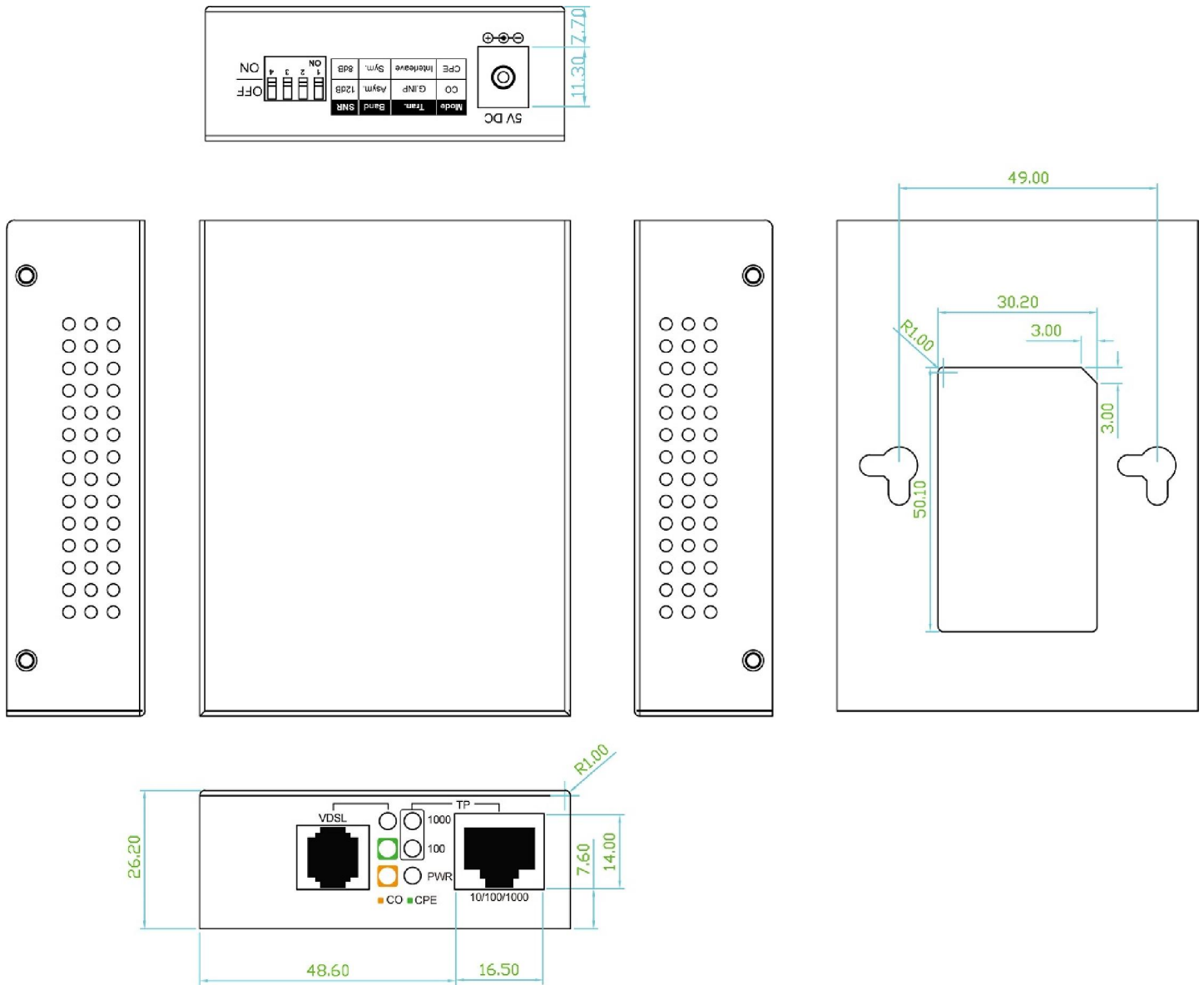► **Support Daisy Chain Topology**
► **2-Year Warranty**

INTRODUCTION

Antaira Technologies' EVC-3101 is an Ethernet-over-VDSL2 converter with high performance. It is designed based on two core networking technologies: Ethernet and VDSL2 (Very-high-data-rate Digital Subscriber Line 2). The VDSL2 technology offers the absolute fastest data transmission speeds over existing copper telephone lines without the need of rewiring. The EVC-3101 supports ultra-high performance to the pervasive telephone line network with up to 200/160Mbps symmetric data rate within 300m and 28/12Mbps for 1.4km long-range connections.

Via the latest VDSL2 technology, EVC-3101 offers very high-performance access to Internet – up to 160Mbps for upstream and 200Mbps for downstream data transmission. With integrated support for the ITU-T's new G.993.5 Vectoring technology, the EVC-3101 works in conjunction with vectoring-enabled DSLAMs to remove crosstalk interference and improve maximum line bandwidth across the existing copper infrastructure.

The EVC-3101 is also a Long Reach Ethernet (LRE) converter which provides one RJ45 Ethernet port and one RJ11 phone jack. The one RJ11 phone jack is for VDSL2 connection. The splitter provided with the EVC-3101 can assist in extending Ethernet using VDSL2 over the same wires as a POTS (Plain Old Telephone Service). The splitter is used to connect to the RJ11 wall jack then connecting a phone to one port and the EVC-3101 to the other effectively splitting the POTS line from the VDSL2 circuit. This makes the EVC-3101 an ideal product for extending a network over existing POTS lines.

DIMENSIONS

antaira®

5V DC
11.30
7.70

OFF
ON
ON
1 2 3 4
SNR 12dB 8dB
Band Asym. Sym.
Tran. G.INP Interleave
Mode CO CPE

49.00
30.20
3.00
R1.00
50.10
3.00

VDSL
TP
1000
100
PWR
10/100/1000
■ CO ● CPE
R1.00
26.20
7.60
14.00
48.60
16.50

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SPECIFICATIONS

Technology	
Standards	IEEE 802.3 Ethernet IEEE 802.3 Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-duplex flow control IEEE 802.1p Class of service 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 & G.INP ITU-T G.998
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex

Switch Properties	
Switch Architecture	Store-and-Forward
DIP Switch	4-position DIP switch - CO/CPE mode selectable - Selectable G.INP and interleaved mode - Selectable target band plan - Selectable target SNR mode
Jumbo Frame	9Kbytes
Address Table	2K

Interface	
Ethernet Port	1*10/100/1000Tx RJ45 auto MDI/MDI-X port
VDSL Port	1*VDSL2 RJ11 female phone jack Twisted-pair telephone wires (AWG24 or better) up to 1.4km
Phone Port	Additional splitter for POTS connection
LED Indicators	Power: green 1000Base-Tx Link/Act: green 100Base-Tx Link/Act: green VDSL: green CO: green CPE: green

Mechanical Characteristics	
Housing	Metal
Dimensions	97 x 70 x 26mm (W*D*H)
Weight	Unit: 0.88 lbs.; Shipping: 1.0 lbs.

Power Requirement	
Input Voltage	5VDC, 2A
Power Connection	AC power adapter
Power Consumption	3.5 Watts/11.93 BTU @ AC 110V (full loading) 3.6 Watts/12.28 BTU @ AC 220V (full loading)

Environmental Limits	
Operating Temperature	0°C ~ 50°C
Storage Temperature	-40°C ~ 70°C
Ambient Relative Humidity	10 – 90% (non-condensing)

Regulatory Approvals	
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Certifications	FCC Part 15 Class A, CE
Warranty	2 Years

ORDERING INFO

EVC-3101	Ethernet over VDSL2 Converter – 1*10/100/1000Tx + 1*VDSL2 RJ11, 1*Phone – 30a

Optional Accessories	
FCU-RACK16S	16-Slot Unmanaged Universal Media Converter Rack, Compact Size, w/1 AC Power Supply
FCU-RACK16-AC	16-Slot Unmanaged Universal Media Converter Rack, w/1 AC Power Supply
FCU-RACK-AC-PWR	AC Power Module for FCU-RACK-16
FCU-RACK16-DC	16-Slot Unmanaged Universal Media Converter Rack, w/1 DC Power Supply
FCU-RACK-DC-PWR	DC Power Module for FCU-RACK-16