

# 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

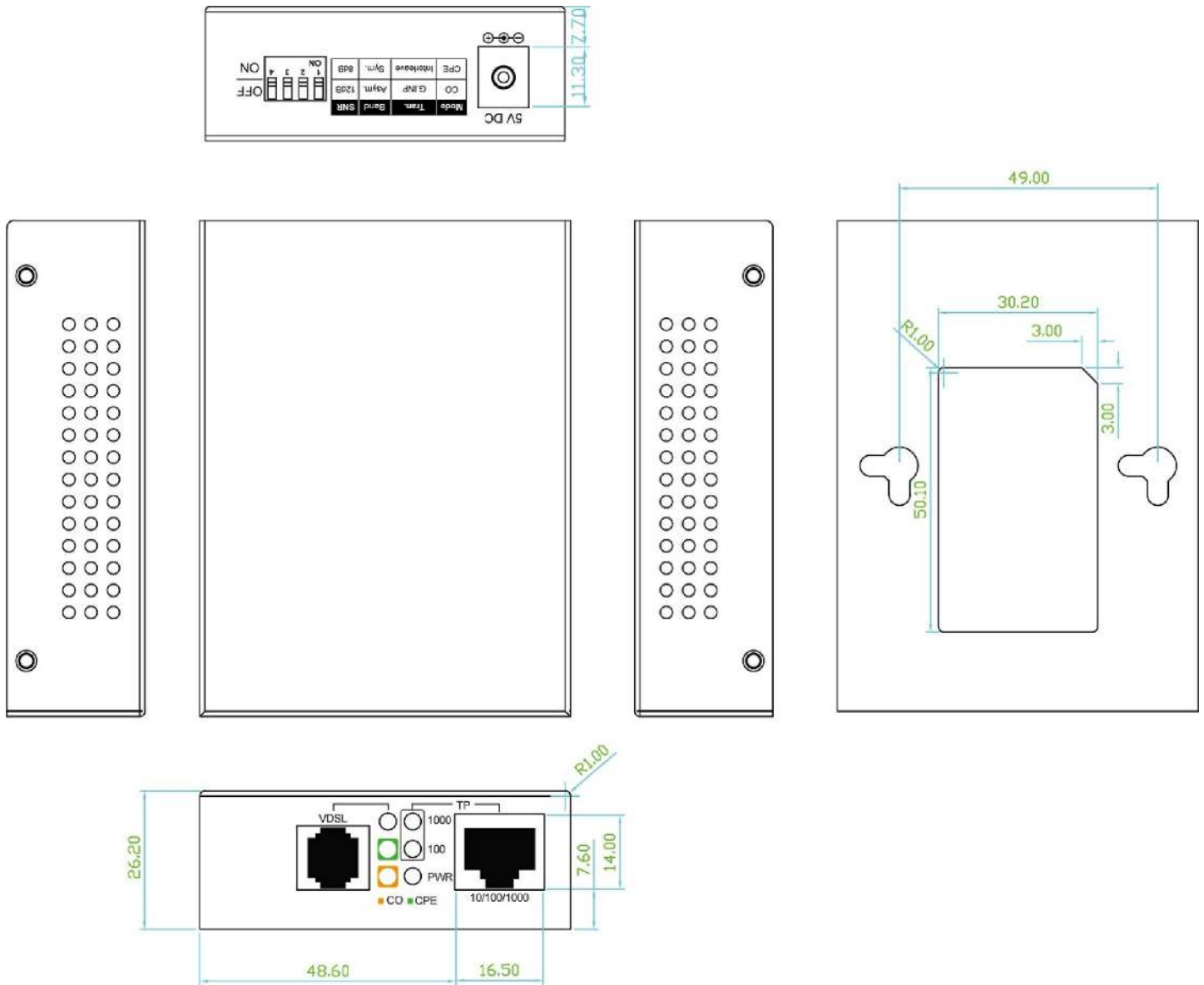
## INTRODUCTION

**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



## SPECIFICATIONS

<b>Technology</b>		<b>Power Requirement</b>	
<b>Standards</b>	IEEE 802.3 Ethernet	<b>Input Voltage</b>	5VDC, 2A
	IEEE 802.3 Fast Ethernet	<b>Power Connection</b>	AC power adapter
	IEEE 802.3ab Gigabit Ethernet		3.5 Watts/11.93 BTU @ AC 110V (full loading)
	IEEE 802.3x Full-duplex flow control	<b>Power Consumption</b>	3.6 Watts/12.28 BTU @ AC 220V (full loading)
	IEEE 802.1p Class of service	<b>Environmental Limits</b>	
	ITU-T G.993.1 VDSL	<b>Operating Temperature</b>	0°C ~ 50°C
ITU-T G.997.1	<b>Storage Temperature</b>	-40°C ~ 70°C	
ITU-T G.993.2 VDSL2 (Profile 17a/30a Support)	<b>Ambient Relative Humidity</b>	10 – 90% (non-condensing)	
ITU-T G.993.5 G.Vectoring & G.INP	<b>Regulatory Approvals</b>		
ITU-T G.998	<b>Free Fall</b>	IEC60068-2-32	
<b>Flow Control</b>	Back pressure for half duplex	<b>Shock</b>	IEC60068-2-27
	IEEE 802.3x pause frame for full duplex	<b>Vibration</b>	IEC60068-2-6
<b>Switch Properties</b>		<b>Certifications</b>	FCC Part 15 Class A, CE
<b>Switch Architecture</b>	Store-and-Forward	<b>Warranty</b>	2 Years
<b>DIP Switch</b>	4-position DIP switch		
	- CO/CPE mode selectable		
	- Selectable G.INP and interleaved mode		
<b>Jumbo Frame</b>	9Kbytes		
	<b>Address Table</b>	2K	
<b>Interface</b>			
<b>Ethernet Port</b>	1*10/100/1000Tx RJ45 auto MDI/MDI-X port		
<b>VDSL Port</b>	1*VDSL2 RJ11 female phone jack		
	Twisted-pair telephone wires (AWG24 or better) up to 1.4km		
<b>Phone Port</b>	Additional splitter for POTS connection		
<b>LED Indicators</b>	Power: green		
	1000Base-Tx Link/Act: green		
	100Base-Tx Link/Act: green		
	VDSL: green		
	CO: green		
	CPE: green		
<b>Mechanical Characteristics</b>			
<b>Housing</b>	Metal		
<b>Dimensions</b>	97 x 70 x 26mm (W*D*H)		
<b>Weight</b>	Unit: 0.88 lbs.; Shipping: 1.0 lbs.		

## ORDERING INFO

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

### Optional Accessories

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