VEC11T-EC Ethernet over Coax 1-Channel Transmitter 1*BNC, 1*RJ45

Description

The VEC11T-EC is a three-in-one Ethernet over Coax 1-channel transmitter. This transmitter provides connectivity for one 10/100Mbps IEEE standard twisted pair copper port over a 75ohm coaxial cable. Power is supplied from one of the headend receivers, VEC116R-PC, VEC18R-PC, or VEC11R-PC Ethernet over Coax switch through the coaxial cable by Power over Coax (PoC) technology. This transmitter provides PoE/PoE+ support with maximum power of 30W. Varying data rates are supported depending on cable distance and quality. The plug-and-play design ensures ease of installation with no electrical adjustment needed. LED indicators are provided to clearly show the operational status of the unit.
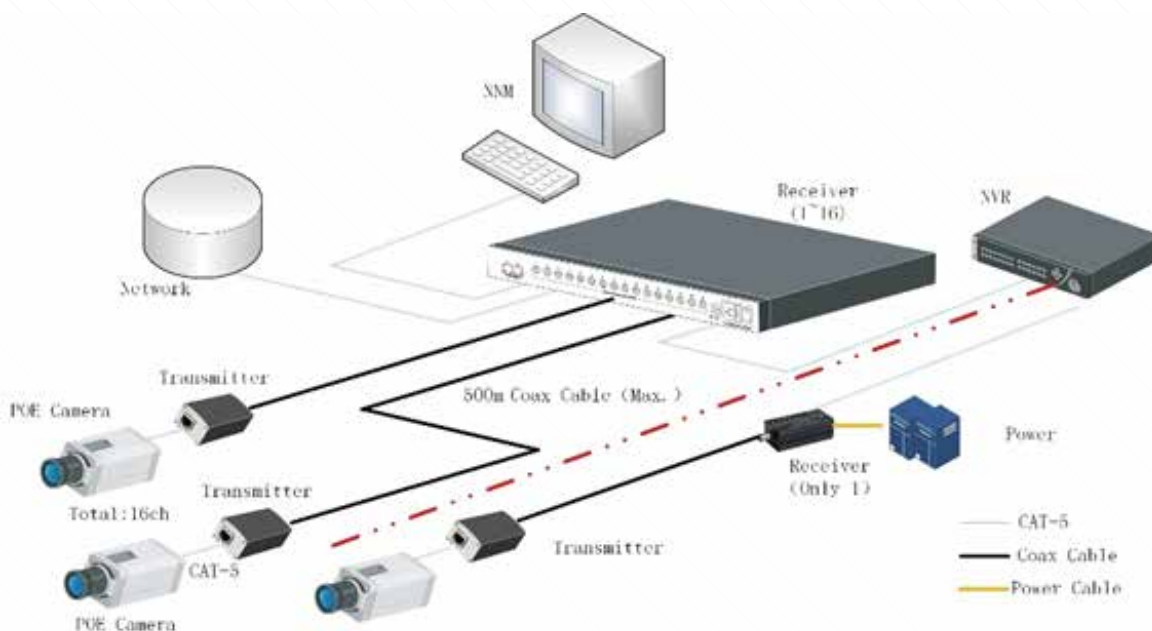
Advantages

• IEEE802.3, IEEE802.3u compliant
• 500m transmission distance
• Compact design for minimal space
• Maximum PoE power of 30W
• EoC, PoC, PoE three-in-one
• Industrial wide temperature range -20~+75ºC
• Multi-layer PCB design with improved surge, static, and lightning protection

Application

The EoC products are used in pairs, with 1ch transmitter connecting to 1ch receiver, or 1ch transmitter(s) connecting to 8/16ch receiver. The following graph shows the connection of 1ch transmitter with 1ch receiver and 16ch receiver.
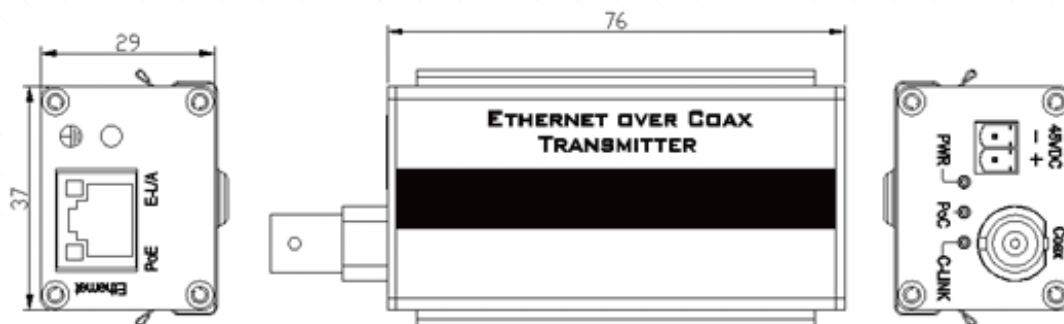

• Application 1: 1ch EoC transmitter VEC11T-EC + 16ch EoC receiver VEC116R-PC. As shown on the left of the red dotted line, a maximum of 16 transmitters may be connected to the receiver.

• Application 2: 1ch EoC transmitter VEC11T-EC + 1ch EoC receiver VEC11R-PC. As shown on the right of the red dotted line, this kind of connection is suited for more scattered applications.
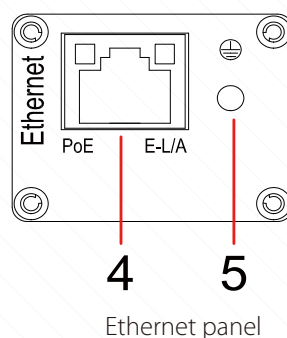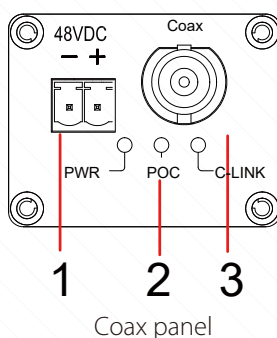
Specification

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Item		Description
Power	Power Supply	PoC (Power over Coax)
	Consumption	<2W (without PoE)
Coax Port	Transmission Medium	75-5 or above coax cable
	Operating Frequency	2M~28M
	Modulation	Wavelet-OFDM
	Transmission Rate	210M (Max)
	Transmission Distance (PoE)	0~500M (75-5 cable)
	Transmission Distance (Non PoE)	0~2000M (75-5cable）
Ethernet Port	Transmission Medium	Cat5e/6
	Standard	IEEE802.3，IEEE802.3U
	Ethernet Delay	<1ms
Protection	ESD	IEC61000-4-2: 6KV (contact), 8KV (air)
	Anti-Thunder Protection	IEC61000-4-5: 1KV (DM), 2KV (CM)
Environment	Operating Temperature	-20℃~+75℃
	Storage Temperature	-40℃~+85℃
	Humidity	0~90% (non-condensing)
Mechanical	Dimensions	29mmX37mmX76mm
	Material	Aluminum
	Color	Black
	Weight	0.2Kg

Dimensions (Unit = mm)

Panel Views and LED Indicators

Coax panel

Ethernet panel

1 - Power input
2 - LED indicators
3 - Coax cable connecter
4 - Ethernet RJ45 port
5 - Grounding terminal

深圳市嘉万光通信有限公司
KOC Communication Co., Ltd.

LED	Color	Status	Description
PWR	Orange	On	Power supply isnormal.
PoC	Green	On	PoC power supply is normal.
C-LINK	Green	On	EoC connection is normal.
PoE	Green	On	Successful handshake with PD and supplying power to PD.
E-L/A	Orange	On/Blink	On: Ethernet link is normal. Blink: The data is active.

Order Information

Item	Part No	Description
1ch Ethernet over Coax transmitter	VEC11T-EC	1 channel EoC transmitter with PoC/PoE, PSE included. 1 fixed BNC port, 1 fixed 10/100M RJ45 Ethernet port. 37~57VDC PoC input. Metal clip mount.

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