SV-UNIT   IPC-UNIT

PRODUCT DESCRIPTION

As part of Bolide's network video connectivity solutions you can find the BE-8216EOC Power Ethernet Extender / Coax converter, which consists of one sending unit (SV-UNIT) and one receiving unit (IPC-Unit). What defines this unit is the capability to transfer an IP signal over a coaxial infrastructure using existing wire to upgrade a current analog system to IP without having to re-wire. Or maybe you just need to extend you Ethernet distance past conventional 100m.

The way it works is the IPC unit transfers the carrier signal over the coaxial cable and extends it to the SV-Unit where the signal is transferred to Ethernet. The SV-Unit has a 48-57V port, one PoE input and two output ports: BNC and RJ45. The IPC-Unit has two input ports: BNC and RJ45 and one PoE output port.

The SV-Unit can use a 54V power adapter or the PoE power supply providing advanced transmission and power supply technology that can transmit the signal and power up to 1,600 feet over coaxial cable and 1,300 feet for networking infrastructure. Additional key features are superior anti-lightning, anti-static, anti-interference, circuit isolation protection, a meet point to point application with an Ethernet delay less than 1ms, and its sleek design meets MIT rack standards.

Lastly, no setup is required; simply connect at each end and you're complete!

Bolide Technology Group
San Dimas, CA 91773
ISO 9001:2008 Certified Company

www.bolideco.com
sales@bolideco.com
Tel 909 305 8889 – Fax 909 305 0999

SV Right Board
Grounding Terminal

IPC Right Board
PoE Out

SV Left Board
POE IN + Power
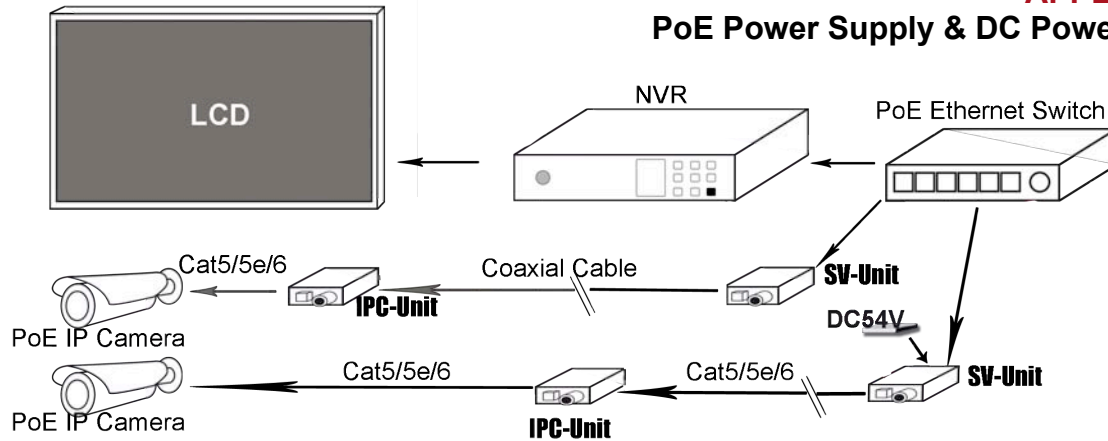

IPC Left Board
EPOC, Grounding Terminal

SPECIFICATIONS		BE8216EOC
POWER	**Power Supply**	PoE power supply or power adapter supply
	Voltage Range	DC 48V - 57V
	Consumption	< 2W
ETHERNET PORT PARAMETER	**Ethernet Port**	EPOC: 0--100Mbps Ethernet 10 / 100Mbps
		Transmission bandwidth changes with transmission distance please refer to table 1
	Transmission Distance	EPOC Coaxial Cable: 0-500m
		EPOC Network Cable: 0-400m
	Transmission Medium	75-5 Above Coaxial Cable and Cat5e/&
	PoE Agreement	Support IEEE802.3af, IEEE802.3at
	PoE Power Supply	Support End-span and Mid-span
ETHERNET EXCHANGE	**Ethernet Standard**	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX
	Ethernet Delay	< 1ms
STATUS	**Indicator LED**	POE IN/OUT Port: One Indicates PoE power supply or DC power status (RJ45 yellow), one indicates Ethernet signal transmission (RJ45 green) EPOC Port: Indicates signal transmission (RJ45 yellow / green)
PROTECTION LEVEL	**ESD**	1a Contact Discharge level 3 1b Air Discharge level 3 Per: IEC61000-4-2
	Communicating Port Anti-Thunder Protection	Per IEC61000-4-5 level 3
OPERATION ENVIRONMENT	**Working Temperature**	0°C to 55°C
	Storage Temperature	-40°C to 85°C
	Humidity (No Condensing)	0 to 95%
MECHANICAL	**Dimension (Lx W x H)**	63.2mm x 82mm x 25mm
	Material	Aluminum
	Color	Black
	Weight	IPC 153g ; SV 154g

APPLICATION
PoE Power Supply & DC Power Supply

Please use 75-5 standard or above coaxial cable and Cat5e/6 cable to get the longest transmission distance! BNC and RJ45 ports cant't be available at the same time.

TEST DATA Under Lab Environment
There may be some differences due to cable and environment of installation

POWER SUPPLY		PoE Ethernet Power Supply		54V DC Power Supply	
SV<-> IPC Cable		75-5	CAT5E	75-5	CAT5E
100m	**Bandwidth (Mbps)**	92.6	91.2	92.6	91.2
	Load Capacity (W)	16.1	17.2	23	23
200m	**Bandwidth (Mbps)**	91	84.2	91	84.2
	Load Capacity (W)	10	12	17	22
300m	**Bandwidth (Mbps)**	90.8	74.5	90.8	74.5
	Load Capacity (W)	8	9.1	12	16
400m	**Bandwidth (Mbps)**	90.5	55.7	90.5	55.7
	Load Capacity (W)	5	6.5	10	12
500m	**Bandwidth (Mbps)**	83.7	/	83.7	/
	Load Capacity (W)	4.5	/	8	/

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