

# 10/100BASE-T Ethernet RJ45-to-BNC Coax Media Converter with PoE

## Description

Wirewerks Coax BNC-to-Ethernet RJ45 Media Converter provides a cost-effective IP interface solution for existing coaxial cable systems of up to 500 meters. The converter's integrated Power-over-Ethernet (PoE & PoE+) function on the Ethernet port can power a PoE video camera or any other 802.3af/at compliant powered device (PD) up to 30.8 Watts, providing both data and power connections in one cable, so the PD equipment doesn't require a separate cable for each need.

This plug-and-play media converter may be used stand-alone or in Wirewerks' standard 2U Media Converter Chassis for centralized applications.

## Features and Benefits

Supports 10/100BASE-T Ethernet transmission over standard coax cable

Cost effective solution converts existing analog coaxial cable CCTV systems to digital IP systems

Complies with IEEE 802.3af/IEEE 802.3at PoE/PoE+ on RJ45 port

Includes transmitter and receiver units, and must be installed in pairs

LED Status Indicators for power, link connectivity, and activity for both RJ45 and BNC ports

Up to 14 receiver units can be installed in a standard 2U rack-mount chassis for centralized control

External power supply and instruction manual included

## Applications

CCTV Security Systems  
IP Surveillance Systems

Highway & Transportation Security Systems  
Other Coaxial Cable Network to IP Access requirements



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## Certification and Compliance

IEEE 802.3	10BASE-T Ethernet Standard
IEEE 802.3u	100BASE-TX Ethernet Standard
IEEE 802.3af	Power-over-Ethernet (802.3at Type 1)
IEEE 802.3at	Power-over-Ethernet Plus (802.3at Type 2)
FCC part 15 Class A	Emissions and Immunity standard
CE	European Conformity standard
RoHS	Directive on Restriction of Hazardous Substances

## Part Number

**WMC4-4C031**

## Description

10/100BASE-T Ethernet to Coax (RJ45 to BNC) converter with PoE on transmitter Kit, 2 per box, up to 500 meters

## Packaging

Carton box; 1 pair per carton  
Total weight: 1.8 lb

## Electrical Characteristics

Parameter	Value
Transmitter Unit Power Input	DC 48-56 V for PoE function
Receiver Unit Power Input	DC 5V~12V
Power Consumption	Less than 3 Watt for each end

## Ethernet Interface

Parameter	Value
Physical Port	RJ45
Signal Type	10/100BASE-T
Transmission Distance	Up to 100 meters

## Coax Interface

Parameter	Value
Physical Port	BNC
Transmission Rate	Total 39 Mbps, 36 Mbps for downlink, 3Mbps for uplink
Transmission Distance	Up to 500 meters
LED Indicators	PWR, LINK, RX, TX, PoE, 100/ACT

## Power Protection

Parameter	Value
Transport Channel Surge Protection	4KV as per IEC61000-4-5
Whole Electrostatic Protection	1a Contact discharge 3 grade/1b Air discharge 3 grade, as per IEC61000-4-2

## Mechanical Characteristics

Parameter	Value
Operating Temperature	0~55°C ( 32F to 131F)
Storage Temperature	-20°C to +70°C (-4F to 158F)
Humidity (0% condensation)	0~95%

## Metal Case

Parameter	Value
Dimensions	94mm x 71mm x 26mm
Color	Black