# IMC-150LPC

## Hardened PoE Long Reach Ethernet Extender via Coaxial



#### **Features**

- Delivers data up to 300 m (985 ft) at 100Mbps with power via coaxial cable
- Extends power >15.4 watt power with 300 m (985 ft) long coaxial cable
- Railway Trackside EN 50121-4 EMC certified
- Features copper-based Link Fault Pass Through (LFPT)
- Supports Remote PD power ON/OFF by disabling/enabling port via management switch

### Introduction

Advantech's IMC-150LPC-M and IMC-150LPC-R are designed to be used as a pair. IMC-150LPC-M 'c.ue' igned for use at a central site while IMC 150LPC-R is used at a remote site. Both devices are capable of extending data and power transmission by >15.4W at 300 m (985 ft) sing extant coaxial cables. Indeed, this solution converts analogue cables into Ethernet connection cables while saving on installation/digitalization costs. IMC-150LPC-M ar or 1C-150LPC-R further support PD power-off via a management switch to enable users to control the unit remotely. This series is compliant with EN50121-4 standards for tracksid, in: all ation and is capable of withstanding electromagnetic interference for rail networks.

### **Specifications**

#### **Communications**

Standard
LAN
Transmission Distances
Transmission Speed
Up to 100 Mbps

#### Interface

**■ Connectors** 1 x 10/100 Mbps RJ-45 1 x 10/100 Mbps BNC Female

DIP Switch
PIN 1 LFPT ON/OFF
PIN 2 (reserved, no function)

• LED Indicators PWR/PoE

P1: LNK/ACT P2: LNK/ACT

#### Power

Power Consumption \*IMC-150LPC-M: 23.5W

■ Power Input 54~57V<sub>DC</sub>

Power Output \*IMC-150LPC-R: >15.4W

• **Connectors** 2P Pluggable Terminal Block, DC Jack

#### **Physical**

Enclosure
IP30, Metal shell with solid mounting kits
Dimensions (W x H x D) 84 x 80 x 25 mm (3.3 x 3.15 x .984 in)

MountingWal

#### **Protection**

Reverse Polarity Present

#### **Environment**

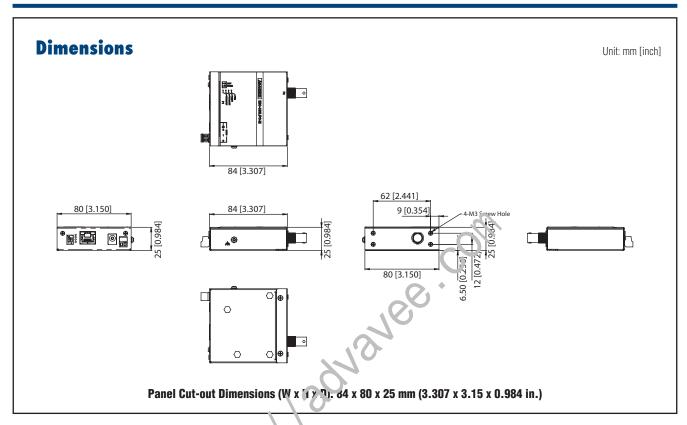
Operating Temperature -40 ~ 75 °C (-40 ~ 167 °F)
Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity 10 ~ 95% (non-condensing)
Storage Humidity 10 ~ 95% (non-condensing)

#### **Certifications**

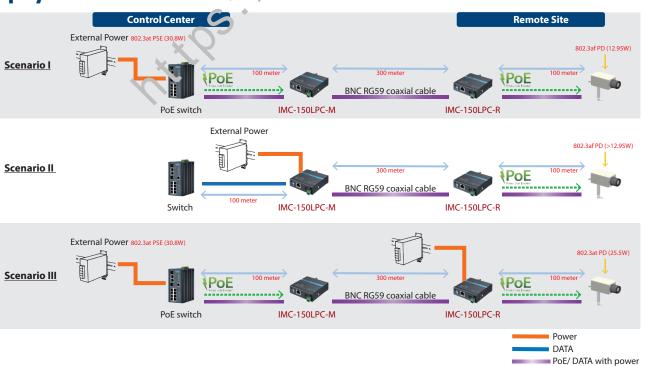
Safety LVD EN62368 EMI CE, FCC, EMS EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 Railway Trackside EN 50121-4 Shock IEC 60068-2-27 Freefall IEC 60068-2-32 Vibration IEC 60068-2-6 Patent http://www.advantech.com/legal/patent

## Ordering Information

IMC-150LPC-M Industrial Long Reach PoE+ Extender, Master
IMC-150LPC-R Industrial Long Reach PoE+ Extender, Remote
IMC-150PS-120 Power Adapter, 100-240V.54V. 120W (Sold separately)



## **Deployment**



Note1: Advantech uses RG59 coaxial cables of Belden's 551945 010100, with the DCR conductor resistance value of 15 Ohm/1000ft to conduct tests. The transmitted output power and distance depends on resistance value of coaxial cables installed at field sites.

Note2: The power consumption and power output of IMC-150LPC-M depend on the PD load and the coaxial cable quality and length.