Rev. 011615

# Pace1PRD

## IP and Hi-PoE Receiver over extended distance CAT5e

## **Overview:**

Pace1PRD is a long range Ethernet receiver which transmits data at 100Mbps full duplex and power via a CAT5e or higher cable. The Pace1PRD receiver is powered via Altronix NetWay1D midspan injector. The receiver passes the Hi-PoE (60W) power over the cable to the eBridge200WPM transceiver which, in turn, passes this power to an enabled IP camera/device. These plug and play units facilitate cost-effective solutions for IP devices that need to be installed at distances greater than 100m.

## Features:

#### Agency Listings:

- UL/cUL Listed for Information Technology Equipment (UL 60950-1).
- CE European Conformity.

#### Input:

Powered by NetWay1D (60W).

#### Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5 structured cable.
- Distance: up to 500m.
- Speed: 10/100BaseT, half/full duplex. auto negotiation.
- Throughput is rated to pass 100Mbps of data at distances up to 500m. With proper headend equipment this supports Megapixel, HD720, HD1080.

#### CAT5e or Higher:

• Distance: up to 500m @ 100Mbps (see Cable Type, Total Device Power, Data and Power Distance, pg. 3).

### LED Indicators:

- Green PoE ON (by respective RJ45 jack).
- · Yellow and Green LED IP Link status, 10/100Base-T/active.

#### Environmental:

- Operating Temperature: - 20°C to 49°C (- 4°F to 120.2°F).
- Storage Temperature: - 30°C to 70°C (- 22°F to 158°F).
- Humidity: 20 to 85%, non-condensing.

#### Functions:

• Auto detection and protection of legacy non-PoE cameras/devices.

#### Applications:

- Extend Network link distance in an industrial environment (see note, pg. 2).
- Works with Megapixel, HD720, HD1080 and VGA (SD) cameras (see note, pg. 2).

#### Mechanical:

• Dimensions (W x L x H approx.): 3.5" x 3.5" x 1" (88.9mm x 88.9mm x 25.4mm).

## Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Wiring should be UL Listed and/or Recognized wire suitable for the application. Pace1PRD is intended for indoor use only.

#### 1. Pace1PRD installation:

- a. Secure unit to desired mounting surface with a proper fastening device utilizing the unit's mounting hole (Fig. 2a, pg. 3). Unit should be mounted in proximity to ethernet switch/network, NVR or video server.
- b. Connect structured cable from NetWay1D to RJ45 jack marked [PoE Input] (Fig. 2, pg. 3).
- c. CAT5e or higher: Connect CAT5e or higher cable to connector marked [RJ45 Link] (Fig. 2, pg. 3).

#### 2. eBridge200WPM connections:

- a. Connect CAT5e from Pace1PRD (60W) to connector marked [CAT INPUT] (Fig. 2, pg. 3)
- b. Select input power SW3 on switch marked [60W CAT, 30W CAT or 60W COAX] (Fig. 2, pg. 3).
- c. Connect structured cable from one (1) 60W camera/device to RJ45 jack marked [Port 1] or connect two (2) individual structured cables from two (2) 30W cameras/devices to RJ45 jacks marked [Port 1] & [Port 2] (Fig. 2, pg. 3).

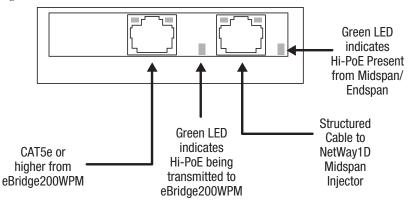


## **Technical Specifications:**

Parameter	Description		
Connections	RJ45 for ethernet link.		
Input Power Requirements	60W from Midspan or endspan port connected. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W), Hi-PoE (60W)		
Indicators	Yellow ( <i>RJ45 connector</i> ): Green ( <i>RJ45 connector</i> ): Green:	On - Link, Off - No Link, Blinking - Activity. On - 100Base-TX, Off - 10Base-T. PoE Active.	
	Operating Ambient Temperature (UL60950-1):		
Environmental Conditions	Relative humidity: Storage Temperature: Operating Altitude:	<ul> <li>- 20°C to 49°C (- 4°F to 120.2°F).</li> <li>20 to 85%, non-condensing.</li> <li>- 30°C to 70°C (- 22°F to 158°F).</li> <li>- 304.8 to 2,000m.</li> </ul>	
Regulatory Compliance	UL/cUL Listed for Information Technology Equipment (UL 60950-1). CE European Conformity.		
Weights (approx.) Product: 3.88 oz. (0.11 kg.)   Shipping: 6.70 oz. (0.19 kg.)			

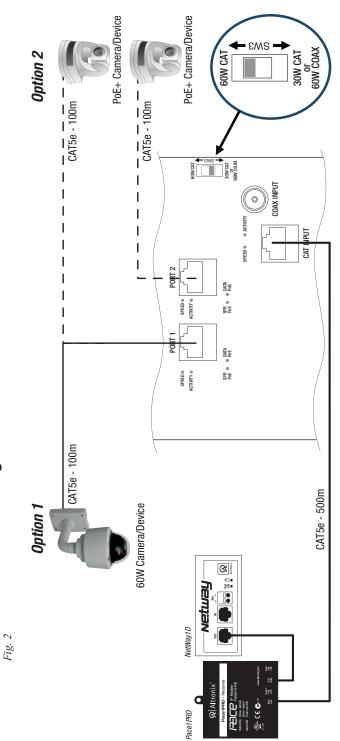
Fig. 1

Pace1PRD



\*Note: Caution: once Hi-PoE connection is established between Pace1PRD and eBridge200WPM, disconnection from eBridge200WPM will not disable the Hi-PoE output voltage on the Pace1PRD, although the eBridge200WPM can be reconnected, caution should be taken not to connect the CAT5e wiring from Pace1PRD to any non-PoE device.





## **Cable Type, Total Device Power, Data and Power Distance:**

Cable Type	Total Power Consumption	Max. Data Distance	Max. Power Distance
CAT5e	15W	500m	500m
CAT5e	30W	500m	423m
CAT5e	60W	500m	211m

Note: Higher gauge wiring will allow for longer distances.

#### **Notes:**

Altronix is not responsible for any typographical errors.

