

## Long Reach PoE Extension Solution

### Introduction

**Proscend Long Reach PoE Extension System** is designed to extend the reach of Ethernet data and IEEE 802.3at/802.3af Power over Ethernet beyond its natural limitation of 100m for the network infrastructure. The solution features **708MP** 8-Port Long Reach PoE Managed Switch with 500 Watts of power budget that can transmit data and power over a single pair of telephone grade UTP wire up to 1,200m or coaxial cable up to 1,800m. **708MP**(Master) can connect up to 8 units of **101MP**(Client) PoE Extender with four PoE (PSE) ports or **100MP**(Client) PoE Extender with one PoE (PSE) port at remote sites. Without the need for local power supply, each **101MP/100MP** provides maximum power budget of 30W that can support any remote IEEE 802.3at/af powered device (PD). It enables centralized management of power supply from a single location for easy, efficient and cost-effective installation. For point to point applications, **701MP**(Master) Single Port PoE Extender can work with **101MP**(Client) or **100MP**(Client) in pairs. **Proscend Long Reach PoE System** is an ideal PoE extension solution for service providers to deploy networking applications in public areas that requires Wireless AP, IP Phones and IP Cameras.



**708MP/100MP PoE Extension System**

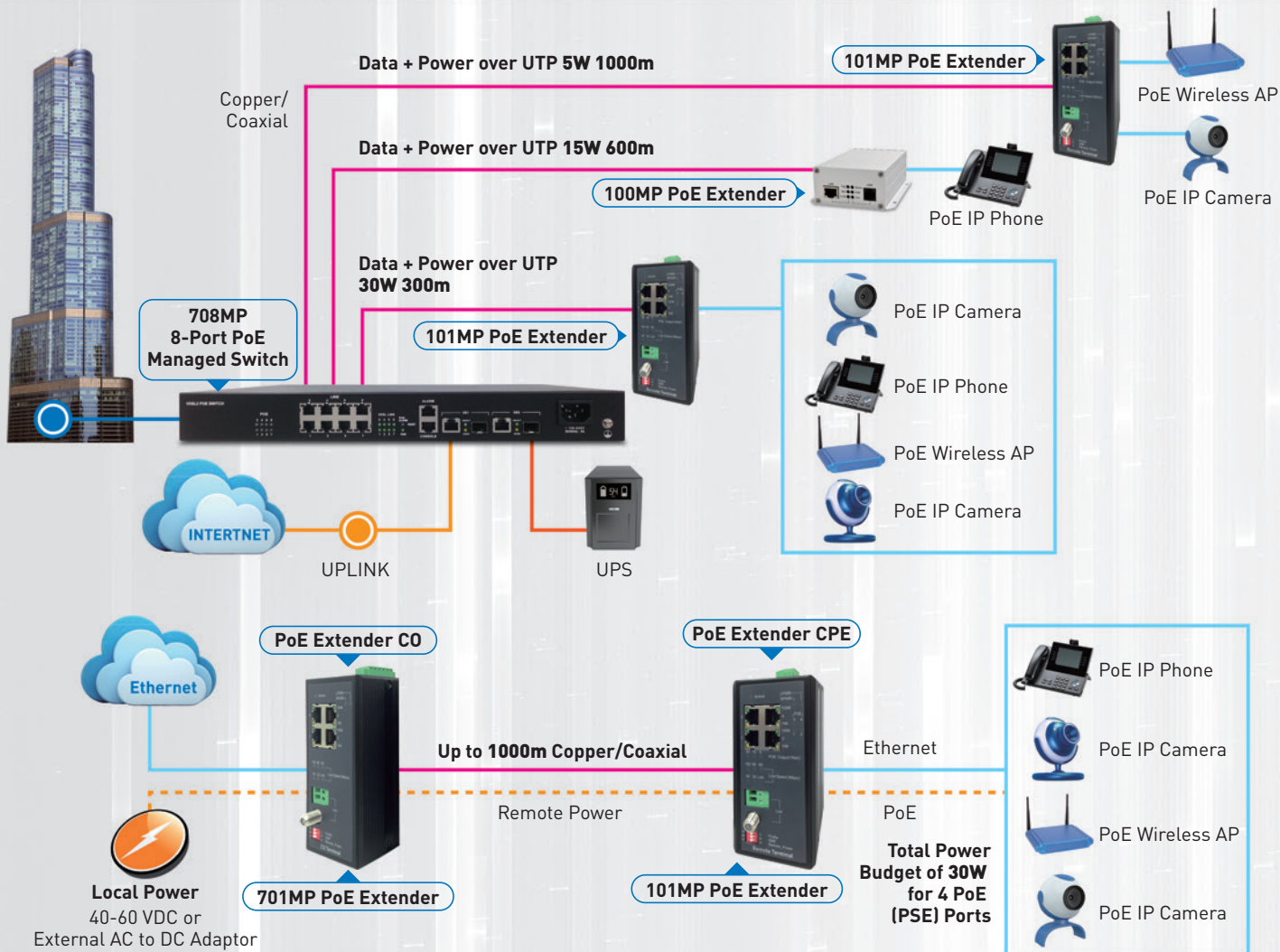
### Features

- Complies to IEEE 802.3at PoE
- Industrial-Grade Extenders for applications in harsh environments
- Simultaneous transmission of Ethernet data and PoE Power over UTP wire or coaxial cable
- Centralized management of power supply
- Eliminated the need for local power supply at remote sites
- Easy cabling for quick installation
- Long transmission distance up to 1200m for UTP wire or 1800m for coaxial cable
- Quick deployment and easy maintenance
- Flexible and efficient power management
- Automatically switch between VDSL2 Profile 30a and 17a to utilize bandwidth performance
- Dip Switch to enable local power supply and provide full 30W to each of the four PoE ports



**701MP/101MP  
PoE Extender**

# Applications



## Performance

24AWG Copper Wire		
Distance	Line Rate	PoE Output (Watts)
300m	100Mbps	30W
400m	90Mbps	20W
600m	65Mbps	14W
800m	45Mbps	9W
1000m	35Mbps	6W
1200m	20Mbps	4.5W

\* The above data is for reference only, the actual performance may vary depending on the quality of the cable and environmental conditions.

## Ordering Information

Model	Description
708MP	<ul style="list-style-type: none"> <li>8-Port Long Reach PoE Managed Switch with 500W Power Budget (UTP Connectors)</li> <li>Operating Temperature: 0 to +50°C</li> <li>Dimensions (WxHxD): 404 x 274 x 44.5 mm</li> </ul>
701MP (Master)	<ul style="list-style-type: none"> <li>Industrial Long Reach PoE Ethernet Extender with 4 Ethernet ports (CO)</li> <li>Operating Temperature: -40 to +75°C</li> <li>Dimensions (WxHxD): 62 x 135 x 106.5 mm</li> </ul>
101MP (Client)	<ul style="list-style-type: none"> <li>Industrial Long Reach PoE Ethernet Extender with 4 PoE ports (CPE)</li> <li>Operating Temperature: -40 to +75°C</li> <li>Dimensions (WxHxD): 62 x 135 x 106.5 mm</li> </ul>
100 MP (Client)	<ul style="list-style-type: none"> <li>Long Reach PoE Ethernet Extender with 1 PoE port (CPE)</li> <li>Operating Temperature: -20 to +65°C</li> <li>Dimensions (WxHxD): 90.5 x 40 x 117 mm</li> </ul>

\* Features and specifications are subject to change without prior notice.

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