



### XP1-MSI Overview

- > 1 port Power over Gigabit Ethernet Midspan Injector
- > Up to 60W DC power over Cat5e or Cat6 cabling
- > One per Wi-Fi Array



### XP1-SPL Overview

- > 1 port Power over Gigabit Ethernet Splitter
- > Splits power and data at the Wi-Fi Array
- > One per Wi-Fi Array

The Xirrus XP Power over Gigabit Ethernet (PoGE) system provides a simple, low cost means to remotely power Xirrus Arrays. The PoGE system delivers DC power in-line with the Array's Gigabit Ethernet data connection. This enables a single cable to deliver both data and power to Xirrus Arrays.

The Xirrus XP PoGE system consists of a 1 port midspan injector which typically resides in the wiring closet and a splitter which is collocated with the Array. The system provides up to 60W of 48VDC power over up to 100m of Category 5e or 6 cable.

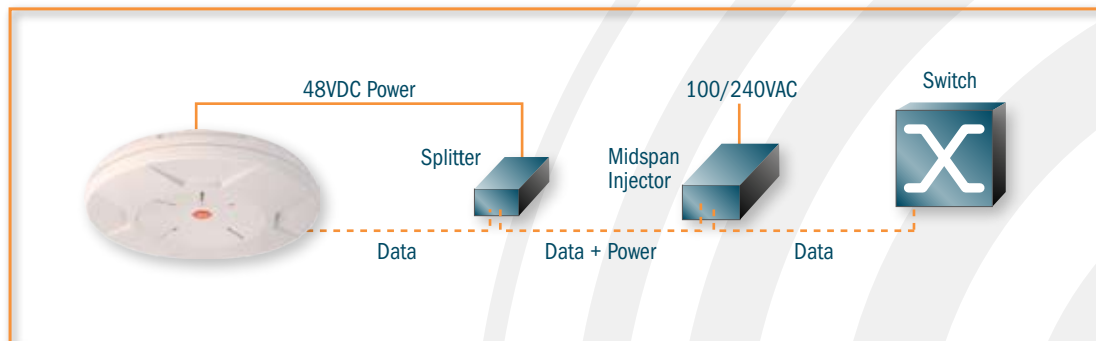
### Key Features

- 60W total output power
- Fully compliant with IEEE 802.3af for detection, disconnect, and voltage control
- Power Arrays remotely up to 100m over Category 5 or 6e cable
- Compatible with 10/100/1000BASE-T Ethernet data connections
- Built-in over current, over voltage, and short circuit protection
- Diagnostic LED

### PoGE System Architecture

The XP PoGE system consists of two components:

- 1) One port midspan injector that typically resides in the IT closet collocated with the data switches that provide wired network connectivity to the Arrays. The data connection to the Array out of the switch is connected to the injector which adds power to the cable. The Array is then connected to the output of the injector.
- 2) One port splitter that is collocated with the Array. The splitter takes the connection from the data closet and splits out power and data to the Array.



## Specifications

	XP1-MSI Midspan Injector	XP1-SPL Splitter
<b>Input</b>		
<b>Voltage/Current</b>	100-240VAC, 47-63 Hz, 1A (RMS) max at 90VAC, 0.7A (RMS) max at 240VAC	45-57 VDC, 1.1A (RMS) max
<b>Leakage Current</b>	0.25mA max at 254 VAC 60Hz	
<b>AC Inrush Current</b>	15A (RMS) max at 115VAC 20A (RMS) max at 230VAC	
<b>Output</b>		
<b>Total Power</b>	60W	
<b>Output Voltage</b>	+56 VDC	52-57V, 1.1A (48VDC nominal)
<b>Load</b>	0.55A Max	
<b>Regulation</b>	+54-57 VDC under all conditions	Unregulated
<b>Efficiency</b>	65% (typical) at max load and 120VAC 60Hz	98% (typical) at max load and 53V input
<b>Output Voltage Protection</b>	Transient - 60V max	Yes
<b>Compliance</b>	<ul style="list-style-type: none"> <li>- cUL/UL</li> <li>- CE</li> <li>- TUV</li> <li>- FCC Part 15 Class B</li> <li>- EN 55022 Class B</li> </ul>	<ul style="list-style-type: none"> <li>- CE</li> <li>- EN 55022 Class A</li> </ul>
<b>Environmental and Mechanical</b>		
<b>Temperature</b>	Operational: 0 to +40°C Non-operational: -25 to +65°C	Operational: 0 to +40°C Non-operational: -20 to +65°C
<b>Humidity</b>	5-90%	5-90%
<b>Location</b>	Indoor or environmentally controlled usage only	
<b>Dimensions</b>	Length: 166mm (6.54 in) Width: 80mm (3.15 in) Height: 43.6mm (1.72 in) Weight: 0.25kg (0.55 lb)	Length: 140mm (5.51 in) Width: 65mm (2.56 in) Height: 36mm (1.42 in) Weight: 0.2kg (0.44 lb)
<b>Power Cord</b>	Length: 6 feet	NA
<b>Indicators</b>	LED #1 ON - Green: Input power on LED #2 FAULT - Red: Fault LED #3 CONNECT - Green: valid IEEE802.3af load detected/connected.	LED #1 OUTPUT - Green: Output good
<b>Connectors</b>	AC Power: IEC320 Inlet 3 pin Input/Output Data: RJ45	DC Power: 3 pin Buchanan terminal block Input/Output Data: RJ45
<b>Ethernet Cabling</b>	Cat 5e or Cat 6. Total length of all cable runs from Ethernet switch to Array must be no more than 100m.	
<b>Protection</b>	Outputs equipped with short circuit and overload protection per 802.3af except max average current is 0.55A, peak 0.60A per pair. The output can be shorted permanently without damage.	



Xirrus, Inc.  
[www.xirrus.com](http://www.xirrus.com) | [sales@xirrus.com](mailto:sales@xirrus.com)  
 370 North Westlake Blvd. Suite 200  
 Westlake Village, California 91362  
 805.497.0955 Corporate Office  
 800.947.7871 Sales  
 805.449.1180 Fax

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