IronPower 100

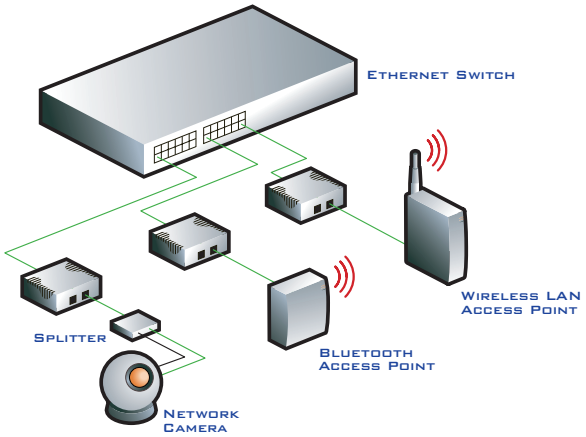
Foundry's IronPower 100 is a single-port Power over Ethernet (PoE) midspan power injector that provides both power and data over standard Ethernet cabling. The Foundry IronPower 100 connects to an existing Ethernet switch using standard Category 5 cabling for data connectivity. IronPower 100 provides -48 VDC to power any 802.3af PoE compliant device to allow it to operate without a dedicated local power source. IronPower 100 power injectors can supply power to all Foundry IronPoint 200 Access Points as well as other 802.3af PoE devices such as network cameras and IP phones.

Single Port Power Injector

The IronPower 100 power injector is extremely easy to use. Simply attach the PoE device, connect IronPower 100 to the network switch, and turn it on. Plug & Play, it couldn't be simpler. All connections are located on the front of the unit for fast and easy access. By centralizing power distribution in existing data closets, existing Uninterruptible Power Supply (UPS) systems and power conditioning systems can be leveraged to provide clean continuous power to the PoE device connected to the IronPower 100.

IronPower 100 power injectors are fully IEEE 802.3af compliant and can also support legacy Power over Ethernet device detection. It conforms to the 802.3 Ethernet standards when no inline power is supplied and complies with IEEE 802.3af using DTE Power via Media Dependent Interface (MDI) when power is supplied. The IronPower 100 uses existing Ethernet standards to transmit data over Ethernet pairs 1/2 and 3/6 to provide maximum compatibility to ensure reliable connectivity. Power is supplied through the unused Ethernet pairs 4/5 and 7/8 conforming to the 802.3af standards for midspan Power over Ethernet.

The IronPower 100's advanced auto-sensing algorithm allows it to automatically detect 802.3af compliant devices. IronPower 100 is also backward compatible to pre-standard algorithms—allowing it to support normal operation of legacy devices, such as ordinary Network Interface Cards (NICs) that do not expect power on their Ethernet connections.



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Benefits

- *Cost effective installation without expensive electrician installation costs*
- *Cost effective powering solution for lower density installations*
- *Automatic detection and protection of legacy and non-powered Ethernet terminals*
- *Eliminates the need for bulky AC adapter, power cord and local Uninterruptible Power Supply (UPS)*
- *Powers devices up to 100 meters using standard Category 5 cabling*
- *Identification of faulty powered devices and safe shut down to protect the infrastructure and device*
- *UPS power backup of the Foundry IronPower 100 in the data closet guarantees continuous operation of the WLAN APs and other Power over Ethernet devices*
- *Centrally installed in a secure data closet prevents tampering of devices*

Features

- *Powers all major Wireless LAN and Bluetooth access points, Network Cameras, and IP Phones*
- *Remote power for scattered topology devices*
- *Safe powering by detecting faulty connections such as overloads and short circuits*
- *Shielded RJ-45 connectors ensures that power distribution does not interfere with network performance*
- *Automatic detection of 802.3af PoE and non-PoE devices*
- *Easy and simple installation*
- *Continuous monitoring of the powered device, shuts down in event of failure or power problem*
- *Backup capability of the powered device through central UPS system*
- *Wall and shelf mountable*
- *IEEE 802.3af compliant*
- *Class 1, 2, 3 device support*

Specifications

Number of Ports

- 1

Data Rates

- 10/100 Mbps (802.3 10Base-T/802.3u 100Base-T)

Power over Ethernet Output

- Pin Assignment and Polarity: 4/5 (+V), 7/8 (-V)
- Output Power Voltage: -48VDC
- User Port Power: 15.4 W minimum

Input Power Requirements

- AC Input Voltage: 90 to 264VAC
- AC Frequency: 47 to 63 Hz
- AC Input Current: 0.3 A at 110VAC, 0.15 A at 240VAC

Dimensions

- 1.75" (H) x 4.17" (W) x 5.5" (D)
- 44.4 mm (H) x 106 mm (W) x 140 mm (D)
- Weight: 1.0 lbs (450 g)

Front Panel Indicators

- System Indicator: AC Power (Green)
- User Indicator: Channel Power Active (Green)

Connectors

- Shielded RJ-45, EIA 568A and 568B

Environmental Conditions

- Operating Ambient Temperature: 32 – 104°F (0 to 40°C)
- Operating Humidity: Maximum 90%, non-condensing
- Operating Altitude: -1000 – 10,000 ft. (-304.8 – 304.8 m)
- Storage Temperature: -4 – 167°F (-20 – 75°C)
- Storage Humidity: Maximum 95%, non-condensing

Thermal Rating

- 127.5 BTU (-48VDC)

Mean Time Before Failure

- 2,885,266 hours @ 25°C Ambient
- 1,741,141 hours @ 40°C Ambient

Regulatory Country Compliance

- USA, Canada, EU, Japan, Australia, New Zealand

Electromagnetic Emission and Immunity

- FCC Part 15, Class B
- EN55022 Class B (Emissions)
- EN50082-1 (Immunity)

Safety Approvals

- UL 1950
- CSA C22.2 No. 950
- EN 60950
- GS EN 60950

Warranty

One year hardware warranty

Ordering Information

Part Number	Description
FIP-100	Foundry IronPower 100—Single Port Power Injector

Specifications subject to change without notice.

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