BLACK BOX®

802.3af 10/100/1000 PoE Injector, 1-Port

Conforms to the 802.3af standard.

Use with IP telephones, wireless access points, IP print servers, IP cameras, and Bluetooth® access points.

1. Specifications

Compliance: CE, cUL/UL®, RoHS, WEEE

DC Output Voltage: 56 VDC

Load (Maximum): 350 mA

Connectors: Data in: (1) RJ-45 (10/100/1000);
Data/PoE out: (1) RJ-45 (10/100/1000);
Power: (1) IEC 320 (3-pin)

Indicators: (3) LEDs: (1) PoE CONNECT, (1) FAULT, (1) PWR ON

Power: AC input voltage range: 90–264 VAC;
AC input voltage rating: 100–240 VAC, 47–63 Hz;
Output: 19.6 W at 56 VDC

Size: 1.4"H x 2.6"W x 5.5"D (1 x 6.6 x 14 cm)

Weight: 0.4 lb. (0.2 kg)

2. Overview

The LPJ000A-F-R2 is an entry-level power injector that conforms to the IEEE 802.3af power standard. As defined in 2003, this standard provides 15.4 W of DC power (minimum 44 VDC and 350 mA) to each device. Only 12.95 W of power is ensured to be available at the powered device because some power is dissipated in the cable.

Use the LPJ000A-F-R2 with IP telephones, wireless access points, IP print servers, IP cameras, and Bluetooth access points.

3. Setting Up Your Power Injector

NOTE: Use CAT5e or higher Ethernet cables (not included).

1. Using screws, affix the metal feet on the front and/or rear to a flat surface such as a table or wall. See Figure 1.

NOTE: The power injector should not use the weight of the Ethernet cables for support.

Customer Support Information

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500) •
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746 •
Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018 •
Web site: www.blackbox.com • E-mail: info@blackbox.com

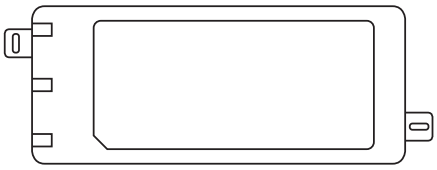

Figure 1. Location of metal feet on the power injector.

Figure 2. Ports on the power injector.

2. Connect the 3-pin IEC320 AC input connector to a power source. Power on the injector.
3. Using CAT5e or higher cable, connect the RJ-45 port on the injector labeled "IN" to your network switch. See Figures 2 and 3.
4. Connect the RJ-45 port labeled "OUT" on the injector over Ethernet cable to the powered device. See Figures 2 and 3.

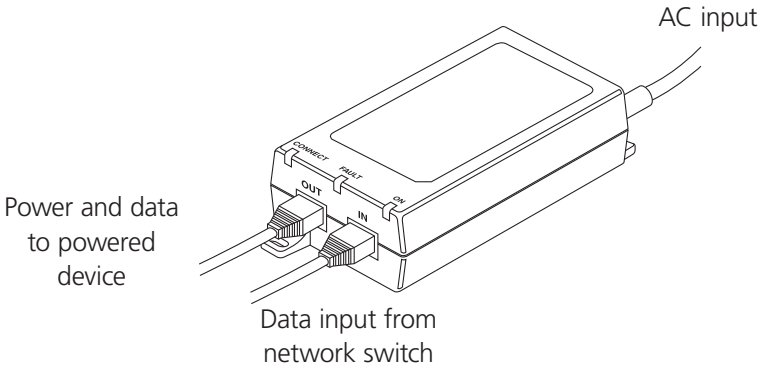

Figure 3. Cable connections to the power injector.

Table 1. LEDs.

LED Name	LED Color	Function
ON	Green	Power ON detected
Fault	Red	Fault detected
Connect	Green	Valid IEEE 802.3af load detected and connected

5. The LEDs will light to diagnose the connection. See Table 1.

Appendix: Resources

Do you have technical questions about this product or similar technology? Check out the Resources listed below or contact our FREE Technical Support at 724-746-5500 or info@blackbox.com.

White Papers: To dowload a white paper, click on the corresponding link listed below:

Whitepapers

Cabinets and Racks

Retrofitting with passive water cooling at the rack level.
Extending the Life of Your Data Center

Selecting cooling systems for IT equipment cabinets is not always as simple as it might seem.
Six Things to Know When Cooling IT Equipment Cabinets

Cables

What's in the ANSI/TIA 1179 standard.
ANSI/TIA 1179 Healthcare Infrastructure Standard

Buyer beware: If the price seems too good to be true, it is.
Counterfeit cable: The dangers, risks, and how to spot it.

Using CAT 6A in 10-GBe networks.
CAT 6A F/UTP vs. UTP: What You Need to Know

When is fiber the ideal choice for your network?
Fiber Optic Technology

Key cabling infrastructure standards.
Structured Cabling Organizations and Standards

Carts and Storage

12 Questions to Ask When Choosing a Tablet and Laptop Cart
E-Learning Device Storage

Communications Solutions

10 Tips for Securing a Strong ROI.
Voicemail to Unified Communications

Compliance Solutions

The key to protecting data in motion.
Group Encryption

Digital Signage and Multimedia

Deliver the right message at the right time.
A Beginner's Guide to Digital Signage

7 Questions You to Need to Ask when Choosing a Signage System. Deliver real-time communications, including emergency messaging, to students, faculty, and staff.
Choosing the Right Digital Signage System

Best practices for creating high-value, compelling content that delivers extraordinary results.
Digital Signage Content 101

Why your school or university needs digital signage and how to implement it.
Digital Signage in Education

Digital Signage and Multimedia (Continued)

Deliver real-time communications—including emergency messaging—to students, teachers, and staff.
Digital Signage for K–12

Everything you need to ask when planning and evaluating digital signage.
The Roadmap to Digital Signage Success

Falling victim to these common mistakes can cost you both time and money.
Seven Pitfalls to Avoid When Planning Digital Signage

Industrial

Connect industrial equipment to your network by using USB.
Bridging the Gap: USB Converters

Learn about system configuration, cabling selection, transient protection, software, and device selection.
The Elements of an RS-422 and RS-485 System

When is fiber the ideal choice for your network?
Fiber Optic Technology

Understanding Power Needs for Industrial Control Devices
Industrial Power Solutions

Run wireless even in extreme environments.
Industrial Wireless

Interface and Protocol Converters

Connect industrial equipment to your network by using USB.
Bridging the Gap: USB Converters

Learn about system configuration, cabling selection, transient protection, software, and device selection.
The Elements of an RS-422 and RS-485 System

Go beyond the five-meter USB distance limitation with USB extenders! Read How to extend USB and break the five-meter barrier.
Extending the Benefits of USB

KVM

An overview of extension and switching technologies in high-performance KVM environments.
HD Video and Peripheral Matrix Switching and Extension

Get secure local KVM console access and secure remote IP server access.
Security with the ServSwitch Wizard IP

Use this transparent and reliable switching technology to avoid the limitations of traditional emulations.
USB True Emulation for KVM Switches

Whitepapers

Networking

Eliminate the need to buy and install expensive network equipment by using wireless Ethernet extension.
5 Questions You Need to Ask When Choosing Wireless Ethernet Extenders

Integrate fiber optic cabling to add speed, distance, and cost savings.
Media Converters

Add low-voltage devices and network equipment in industrial environments without running power.
Power over Ethernet in Industrial Applications

Is your network ready?
Tablets in Education

Common network mistakes that cost money, cause downtime, and create frustration.
Top 10 Network Mistakes

Take these ten steps to ensure wireless success: Ten Commandments of Wireless Communications white paper.
Wireless Communications

Run wireless even in extreme environments.
Industrial Wireless

Wireless Networking: wireless standards, architecture, security and more white paper. A basic overview of standards, installation, and security.
Wireless Networking

Network Security

The key to protecting data in motion.
Group Encryption

Physical Security

See why it's just as important as software-based security.
Physical Network Security

Power

Understand the power needs for industrial control devices.
Industrial Power Solutions

Understanding the risks to your network and how to choose the right solution.
Power Protection

Add low-voltage devices and network equipment in industrial environments without running power.
Power over Ethernet in Industrial Applications

Testers and Tools

See how industrial-strength Ethernet has come of age.
Ethernet in Harsh Environments

Learn about the top three growth drivers for fiber networks: greater bandwidth needs, increased storage demands, and the transition to higher network speeds.
Improve the Quality of Fiber Installations with Extended Fiber Certification

Meet the need for implementation speed without sacrificing accuracy.
Proven Techniques and Best Practices for Managing Infrastructure Changes

Move your private networks in premises and campus environments towards high-speed applications.
Testing Today's High-Speed Multimode Fiber Infrastructure

Use easy-to-install, standardized, plug-and-play technology.
Troubleshooting Your Industrial Network

Be sure to complete this step when installing a new local area network segment.
Validate LAN Installations for Optimal Service Delivery

Wireless

Ten Commandments of Wireless Communications white paper. Take these ten steps to ensure wireless success.
Wireless Communications

Run wireless even in extreme environments.
Industrial Wireless

Is your network ready?
Tablets in Education

A basic overview of standards, installation, and security.
Wireless Networking