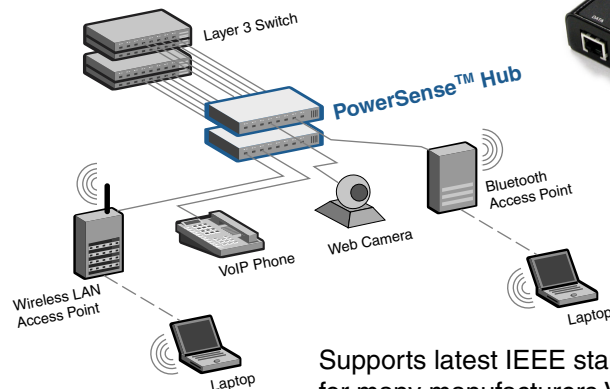


BL-8000 PowerSense™ Power over Ethernet Modular Multiport In-Line Power Hub

Safely and efficiently provide power over LAN Data cabling for VoIP phones, Wireless Networking access points and other remote access devices .

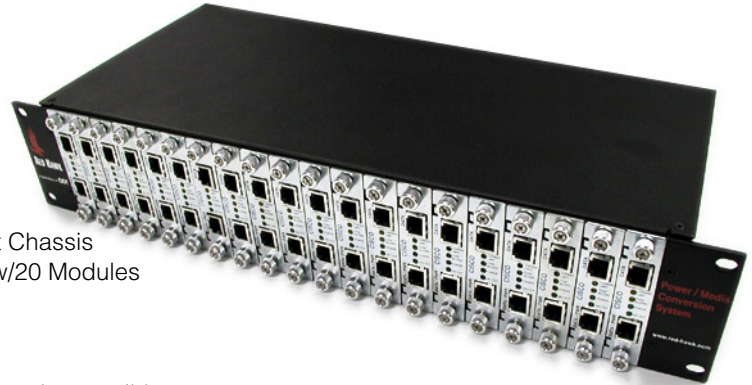
The PowerSense™ In-Line Power Hub from Red Hawk provides a safe and efficient way to provide power to VoIP Phones, Wireless LAN Access Points, Web Cameras and other LAN Devices without the use of an external power supply for each device. Power is supplied over the existing LAN data cabling system. This greatly improves the range of installation locations for such devices, no longer requiring them to be located near a power outlet. It also adds an unprecedented level of safety and reliability for powered LAN devices.

The PowerSense™ Hub is a 20 port rack-mount chassis with up to 20 individual modules. Each module is Hot-swappable so that modules may be added to the chassis without powering down the unit. For safety, each module has its own DC to DC converter, which is totally voltage isolated from the other ports. Each module is separately fused and protected from any unexpected current surge. If a power surge should occur, either through a building electrical system or lightning strike, the PowerSense™ Hub takes the force and helps protect the valuable equipment attached to it. If the individual power module is damaged due to misuse or very large power surge, the unit may be hot swapped out without powering down the chassis or disconnecting the other devices attached to the other power modules in the chassis.



Supports latest IEEE standard for many manufacturers VoIP phones

Rackmount Chassis
Complete w/20 Modules



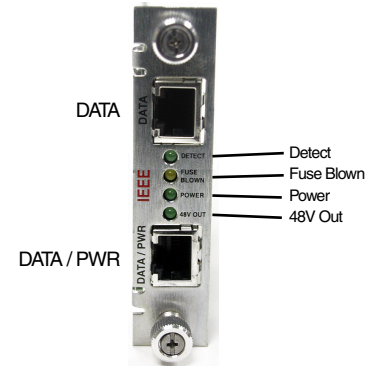
When used with an uninterruptible power supply, the PowerSense™ Hub provides non-stop power for up to 20 connected devices. Continuous operation of powered LAN devices is assured, while costly downtime is avoided. The PowerSense™ Hub also eliminates the need for costly uninterruptible power supplies to be installed for each powered LAN device, saving time and extra expense.

The PowerSense™ Hub is tailored to provide maximum value in VoIP network applications. External power supplies normally required for VoIP phones become unnecessary. Power is now supplied by the PowerSense™ Hub System to the phones directly over the existing LAN cabling infrastructure. A device detection circuit provides invaluable protection from over-voltage damage when connecting expensive devices to the network such as VoIP phones or laptops.

The PowerSense™ family also includes a **six port model** and a **single port model** for powering smaller concentrations of devices. PowerSense™ accessory products include **splitters** necessary for use with most wireless LAN access points.



Single Port Model



Features/Benefits:

- > Individual power modules, hot swappable in the 19" rackmount ready chassis
- > Each module is current limited for short circuit protection with power isolation of 1KV between ports
- > Each module has a replaceable fuse for recovery from power surge or lightning damage
- > Each module auto-detects the power requirement and offers transparent 10/100Mb operation
- > Each module has FOUR diagnostic LED's - as shown above
- > Compatibility with IEEE 802.3af or legacy Cisco™ powered devices
- > Designed and built in Silicon Valley, USA using all metal construction & quality components with 2 year Warranty on Chassis & Modules



PowerSense™ In-Line Power Hub Specifications



Data & Power
Splitter

Ordering Information

Chassis only - 19" Rackmount ready
BL-8220 - 20 Slot PowerSense™ Chassis
BL-8210 - 10 Slot PowerSense™ Chassis

Chassis - Complete w/20 Chassis Modules

BL-8420 - 20 Power & Data Modules - 24 volt support
BL-8520 - 20 Power & Data Modules - IEEE 802.3af compatible
BL-8620 - 20 Power & Data Modules - Cisco™ protocol

Chassis - Complete w/10 Chassis Modules

BL-8410 - 10 Power & Data Modules - 24 volt support
BL-8510 - 10 Power & Data Modules - IEEE 802.3af compatible
BL-8610 - 10 Power & Data Modules - Cisco™ protocol

Chassis Modules - Individual

BL-8400 - 24 volt support Power & Data Module
BL-8500 - IEEE 802.3af compatible Power & Data Module
BL-8600 - Cisco™ protocol Power & Data Module
BL-8100 - 100Mbit Fast Ethernet Media Converter - RJ45/SC

Chassis - Cover Plates for unused slots

BL-8201 - Single Slot cover plate
BL-8205 - Five Slot cover plate

Six Port Models

BL-8456 - 6 Power & Data ports - 24 volt support
BL-8556 - 6 Power & Data ports - IEEE 802.3af compatible
BL-8656 - 6 Power & Data ports - Cisco™ protocol

Single Port Models

BL-8451 - Single Power & Data port - 24 volt support
BL-8551 - Single Power & Data port - IEEE 802.3af compatible
BL-8651 - Single Power & Data port - Cisco™ protocol

Data & Power Splitters

BL-8703 - Data & Power Splitter - 3.3VDC output - IEEE 802.3af compatible
BL-8705 - Data & Power Splitter - 5VDC output - IEEE 802.3af compatible
BL-8712 - Data & Power Splitter - 12VDC output - IEEE 802.3af compatible
BL-8724 - Data & Power Splitter - 24VDC output - IEEE 802.3af compatible

Certifications

Safety: UL 1950 and cUL
Emissions: FCC Class A EN55022
Class A EN55024, CE Mark (CISPR 22 Class A)
Standards: P802.3af/D3.0 (Nov.2001), 802.3u

Interfaces

20 Female RJ-45 Data ports
Shielded jacks for Category 5 UTP (two pair wire) or 100-ohm STP (two pair wire).
Distance: 100 meters
20 Female RJ45 Data+Power on Ethernet (PoE-Power over Ethernet) ports

LED Indicators / Module

Detect (Green)
Fuse blown (Yellow)
Power from Chassis (Green)
Power forwarding (48V Out) (Green)

Physical / Mechanical

Chassis type: 19" Rackmount w/20 Modules
Chassis size: 19"W x 18"D x 3.5"H
Module Type: Removable, hot swappable
Weight: 20lbs. (9kg)

Physical / Environmental

Operating Temperature
0° to 40° C (32° to 105° F)
Storage Temperature
-10° to 60° C (14° to 140° F)
Relative Humidity
10% to 90% non-condensing
Operating Altitude
-1,000 to 10,000 feet

Electrical

AC Power Input
Voltage: 90-264V Autoranging (46Hz - 63Hz)
Connector: 3-pin with Ground
Chassis Grounding: Yes
Power Supply: Single

DC Port Power Output
Power Enabling: IEEE 802.3af
Power pins: Unused pairs, pins 4,5(+), 7,8(-)
Max. Power/Port: 15.6W
Max Power-all ports active: 20*15.6W = 312W
Port to Port isolation: 1000V RMS
Overload protection: if current reaches 400-450mA for 300-400 milliseconds, then the port shuts down



Six Port Model

Distributed by
ABP Technology Partners
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Dallas, Texas 75234
972-831-1600



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Milpitas, CA 95035

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