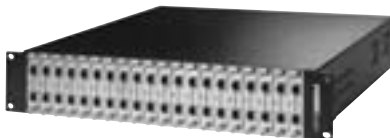# Power Over Ethernet Midspan Hubs
PowerSense AX-8000 Series
Modular Multiport

PowerSense 20-Port Midspan Hub
IEEE 802.3af compatible

AX-8510 PowerSense10-Port Midspan Hub
IEEE 802.3af compatible

PowerSense Modules

IEEE   CDP   24v   12v   HW

AX-8000 PowerSense Series

The AX-8000 Modular Multiport In-Line Power Hub includes 20-slot and 10-slot modular chassis units which may be populated with any combination of PowerSense modules. The individual modules are all hot swappable and fully voltage isolated from each other. These units help reduce costs and downtime by allowing individual modules to be removed or inserted while the chassis and all other modules remain operational.

Modules can be mixed and matched to support CDP™ devices, IEEE 48-volt, 24-volt or 12-volt applications within the same chassis. Power IP phones, wireless access points, security cameras and other low voltage devices safely and efficiently. A **single port model** is also available (see page 14.4) in any of the module styles for single device powering applications.

Description	Belden Part Number
AX-8000 PowerSense Series — Multiport	
Chassis Only (without modules)	
20-slot PowerSense chassis – 19″ rack mount ready	AX-8220
10-slot PowerSense chassis – w/ rubber feet	AX-8210
10-slot PowerSense chassis – 19″ rack mount kit	AX-8210-RM
10-slot PowerSense chassis – wall mount kit	AX-8210-WM
Chassis Complete with 20 Standard Power Chassis Modules	
20 Power and Data modules – 12 volt protocol	AX-8320
20 Power and Data modules – 24 volt protocol	AX-8420
20 Power and Data modules – IEEE 802.3af compatible	AX-8520
20 Power and Data modules – Cisco CDP protocol	AX-8620
Chassis Complete with 10 Standard Power Chassis Modules	
10 Power and Data modules – 12 volt protocol	AX-8310
10 Power and Data modules – 24 volt protocol	AX-8410
10 Power and Data modules – IEEE 802.3af compatible	AX-8510
10 Power and Data modules – Cisco CDP protocol	AX-8610
Standard Power Chassis Modules (for devices up to 15.4 watts, uses 1 slot)	
Power and Data module – 12 volt protocol	AX-8300
Power and Data module – 24 volt protocol	AX-8400
Power and Data module – IEEE 802.3af compatible	AX-8500
Power and Data module – Cisco CDP protocol	AX-8600
High Wattage Chassis Modules (for devices up to 20 watts, uses 2 slots)	
Double Wide Power and Data module – 12 volt protocol	AX-8300HW
Double Wide Power and Data module – IEEE 802.3af compatible	AX-8500HW
Double Wide Power and Data module – Cisco CDP protocol	AX-8600HW
Custom Power Chassis Modules (for specific products)	
Power and Data module, supports AXIS 205 Camera, 12V	AX-8300AXIS205
Power and Data module, supports AXIS 2120 Camera, 12V	AX-8300AXIS2120
Power and Data module, supports IndigoVision Camera, 12V	AX-8300IVC100
Power and Data module, supports SONY SNCRZ30N Camera, 12V	AX-8300SNCRZ30N
Power and Data module, supports SAVI Products, 12V	AX-8300SR600101
Power and Data module, supports IQinvision IQEYE3 Camera, 24V	AX-8400IQEYE3
Power and Data module, supports Trango Broadband AP, 24V	AX-8400M58305AP
Power and Data module, supports Mobotix MX-D-03 Camera, 24V	AX-8400MXD03
Power and Data module, supports Smarteye Camera, 24V	AX-8400SP400101
Chassis Cover Plates (for unused slots)	
Single slot cover plate	AX-8201
Two slot cover plate	AX-8202
Five slot cover plate	AX-8205
Six slot cover plate	AX-8206

Visit www.BeldenIBDN.com for a product compatibility list.

These products are in the process of being assessed for RoHS compliance. Please check our Web Site for the most current RoHS status.

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Power Over Ethernet Midspan Hubs
PowerSense AX-8000 Series
Single-Port

PowerSense 1-Port Midspan Hub
IEEE 802.3af compatible

AX-8000 PowerSense Series

For single device powering applications, this **single port version** of the popular AX-8000 PowerSense Series of Modular In-Line Power Hubs is available in any of the same module styles as the multiport version. Modules can support CDP™ devices, IEEE 48-volt, 24-volt or 12-volt applications to power IP phones, wireless access points, security cameras and other low-voltage devices safely and efficiently.

Description	Belden Part Number

AX-8000 PowerSense Series — Single Port Hubs

Standard Power Modules	
Single Power and Data port — 12V Power and Data compatible	**AX-8351**
Single Power and Data port — 24V Power and Data compatible	**AX-8451**
Single Power and Data port — IEEE 802.3af compatible	**AX-8551**
Single Power and Data port — Cisco CDP protocol	**AX-8651**
High Wattage (for devices up to 20 watts, w/ power supply)	
Double Wide Power and Data module — 12 volt protocol	**AX-8351HW**
Double Wide Power and Data module — IEEE 802.3af compatible	**AX-8551HW**
Double Wide Power and Data module — Cisco CDP protocol	**AX-8651HW**
Custom power modules, with power supply	**Various Part Numbers**

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Power Over Ethernet Midspan Hubs
PowerSense AX-6000 Series
24-Port, 8-Port Module

PowerSense 24-Port Midspan Hub
IEEE 802.3af compatible

PowerSense 8-Port Midspan Hub
IEEE 802.3af compatible

Individual Chassis Module

AX-6000 PowerSense Series 24-Port

The **AX-6000 Modular Multiport In-Line Power Hub** safely and efficiently provides power over LAN data cabling for VoIP phones, wireless networking access points, IP security cameras and other remote network devices.

The PowerSense In-Line Power Hub provides power to 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 increases the flexibility of installation and possible 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 **24-port rack-mount chassis** powering up to 24 devices. Each **8-port module** is hot-swappable and modules may be added to the chassis without powering down the unit. If an individual power port is damaged due to a lightning strike or power surge, the module bank may be hot swapped out without powering down the chassis or disconnecting the other devices attached to the other power ports in the chassis.

When used with an uninterruptible power supply, the PowerSense Hub provides continuous power for up to 24 connected devices. PowerSense is tough and durable, made with an all metal chassis.

PowerSense operates on Category 5, 5e or 6 grade LAN data cable at standard Ethernet distances. The AX-6000 series supports powered devices requiring the IEEE 802.3af PoE protocol.

Description	Belden Part Number
AX-6000 PowerSense Series 24-Port	
Chassis Only (without modules)	
PowerSense Chassis, 3 slots, each slot holds one module	**AX-6224**
PowerSense Chassis, 1 slot, holds one module	**AX-6208**
1-slot Chassis (with one standard 6500 module installed)	
8 Power and Data Ports — IEEE 802.3af compatible, 10/100 Mbs	**AX-6108**
Optional 19″ Rack Mount Kit for one slot chassis	**AX-6108-RM**
3-slot Chassis (with up to three standard 6500 modules installed)	
24 Power and Data Ports — IEEE 802.3af compatible, 10/100Mbs	**AX-6524**
16 Power and Data Ports and one cover plate — IEEE 802.3af compatible	**AX-6516**
8 Power and Data Ports and two cover plates — IEEE 802.3af compatible	**AX-6508**
3-slot Chassis GIG (with up to three 6500GIG modules installed)	
24 Power and Data Ports — IEEE 802.3af compatible, 10/100/1000Mbs	**AX-6524GIG**
16 Power and Data Ports and one cover plate — IEEE 802.3af compatible	**AX-6516GIG**
8 Power and Data Ports and two cover plates — IEEE 802.3af compatible	**AX-6508GIG**
3-slot Chassis HW4 (with up to three 6500HW4 modules installed)	
12 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6512HW4**
8 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6508HW4**
4 Power and Data Ports — RJ-45, IEEE, High Power (36 watts per port) 10/100Mbs	**AX-6504HW4**
Spare Chassis Modules (Individual; fits one or three slot chassis)	
8 Power and Data Ports — RJ-45, IEEE 802.3af compatible, 10/100Mbs	**AX-6500**
8 Power and Data Ports — RJ-45, IEEE 802.3af compatible, 10/100/1000Mbs	**AX-6500GIG**
4 Power and Data Ports — RJ-45, IEEE, High Power (37 watts per port) 10/100Mbs	**AX-6500HW4**
Chassis Cover Plates (for unused slots)	
Single Module Cover Plate (covers one module slot)	**AX-6201**

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For more information, contact Belden Technical Support: **1-800-BELDEN-1** • www.belden.com

Power Over Ethernet Accessories
PoE Connectors, Data & Power Splitting "Y" Cables

Power over Ethernet Connector

Data Splitting Y Cables

Power over Ethernet Connectors

Power over Ethernet Connectors allow Cisco 7900 Series VoIP Phones or AP350 or AP1100 to be powered with IEEE 802.3af style 48-volt power over Ethernet.

Power may come from a powered Ethernet switch or midspan power hub. Connector installs near powered device. Two LEDs let user know whether power is originating from an Ethernet switch or midspan power hub.

Description	Belden Part Number
Connectors	
Input IEEE 802.3af power from any powered switch or midspan hub	**AX-8858-01**
Input IEEE 802.3af power from HP Pro Curve powered switch	**AX-8858-02**

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Data & Power Splitting "Y" Cables

Data & Power Splitting "Y" Cables are for 12 volt applications and feature a RJ-45 female/male and male power pin. They provide precise splitting of the signal for accurate performance. Various plug sizes/applications are listed below.

Description	Belden Part Number
Data Splitting Y Cables	
2.5 mm plug for AXIS PTA -20, 2100, 2120	**AX-820Y-01**
2.1 mm plug for Vivotek PTV-20	**AX-820Y-02**
1.3 mm plug for Intellinet PTI-20	**AX-820Y-03**
No plug, bare wire for IVC 100	**AX-820Y-04**
Special connector for Symbol AP 41XX	**AX-820Y-05**
5.5 mm barrel w/ 1.0 mm center — Sony SNC-RZ30N, Sony PTS-20, AXIS 2130	**AX-820Y-06**
MAXI 7-pin socket for SAVI Products	**AX-820Y-07**
CONXALL 6-pin for SAVI SR-600-101	**AX-820Y-08**
1.0 mm plug for AXIS 205, 210, 230, 241Q/S, 250S	**AX-820Y-09**
2.1 mm plug on 8″ power wire for Symbol AP 3020 series	**AX-820Y-10**

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