

COST EFFECTIVE, POWER-OVER-ETHERNET
FOR SYMBOL WIRELESS LANs

802.3af-Based Power-over-Ethernet Solutions for Symbol Wireless LANs

Symbol Wireless Switch Power-over-Ethernet Solutions Save Labor and Costs

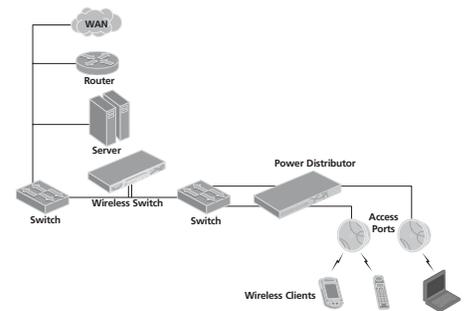
Power distribution solutions from Symbol Technologies deliver operating power and data to Symbol Spectrum24® Access Points and Access Ports via standard Ethernet cabling, simplifying installation and eliminating the need to run separate power lines to each access point or port location.

Whether in a warehouse, factory floor, or enterprise facility, running power to difficult-to-reach locations or to support changing network layouts can lead to excessive costs, as well as disruptions in time and labor operations. Symbol power distribution solutions significantly reduce cabling and outlet requirements—especially in hard-to-reach locations such as ceilings—and streamline wireless infrastructure deployment, lowering costs while protecting your Category 5 and Ethernet switch investment.

12-Port Power Injector



The 12-Port Power Injector installs conveniently in your wiring closet rack. Easy to access interfaces on the front panel distributes IEEE 802.3af-compliant power for up to twelve Access Ports. The 19 in./48 cm form factor requires minimal rack space and the Advanced Auto Sensing discovery feature detects Power-over-Ethernet enabled access points before supplying in-line power. When used in conjunction with a centralized UPS, the Power-over-Ethernet Hub can provide uninterrupted availability of power to your wireless LAN—even in the event of power failure.



Specification Highlights

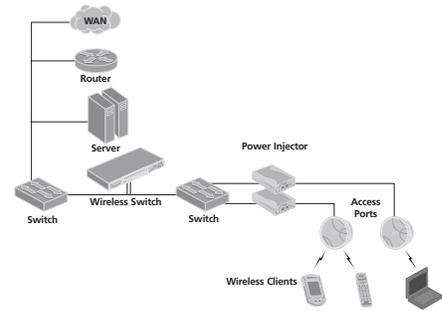
Physical Characteristics	
Dimensions:	11.9 in. L x 17 in. W x 1.75 in. H/302 mm L x 433 mm W x 44 mm H
Weight:	8.8 lbs/4.0 Kg
Mounting Options:	Desktop or 19" Rack-Mount
Indicators:	
System Indicator	AC Power (Green), Alarm (Orange)
User Indicator	Channel Power (Green), Alarm (Orange)
Number of Ports:	12
Port Types:	10/100 Mbps
Part Number:	AP-PSBIAS-T-12-AF
Environmental Conditions	
Operating Temperature:	32° to 104° F/0° to 40° C
Operating Humidity:	10 to 90% (no condensation allowed)
Storage Temperature:	-4° to 158° F/-20° to 70° C
Storage Humidity:	10 to 90% (no condensation allowed)
Operating Altitude:	0.34 to 10,000 ft./-400 to 3048 m
Thermal Rating	
Thermal Rating:	Vin=100VAC @ Full Load
Input Specifications	
AC Input Voltage:	90 to 264 VAC (47-63 Hz)
DC Input Voltage:	DC Power Supply Input: -46 to -57 VDC
Input Current:	
At 110 VAC	0.34 A (max)
At 220 VAC	0.17 A (max)
Connectors:	Shielded RJ-45, EIA 568A and 568B, DB-9 Female
Output Specifications	
Pin Assignments:	Power Feeding 4/5, 7/8
Nominal Output Voltage (per Access Port):	44 to 52 VDC
Total Max Output Power:	16.8 W per Access Port (15.4 W min.)
Compatibility	
Supported Products:	Access Port; 802.3af-based devices
Regulatory	
Compliance:	CE Compliance
Electromagnetic Emission:	FCC Part 15 Class B/ICES 003 Class B, EN55022 Class B, EN55024
Safety:	UL 60950, CSA C22.2 No. 60950, EN60950/IEC 950, CB Certification



Power Injector



The single-port Power Injector provides the benefits of Power-over-Ethernet for individual Symbol Access Ports. The Power Injector connects to your Ethernet switch and power and data is then transmitted to the Access Port via the Ethernet cable. The Power Injector supplies effective independent overload and short circuit protection per port. The Power Injector provides a cost-effective power solution for your small-site deployment by supplying power directly to Access Ports from a central location using current LAN infrastructure.



Specification Highlights

Physical Characteristics

Dimensions: 1.51 in. H x 4.17 in. W x 5.51 in. D/38.5 mm H x 106 mm W x 140 mm D

Weight: 0.55 lbs/250 g

Mounting Options: Desktop

Indicators:

System Indicator Main Power Indications (Green LED)
User Indicator Port Status Indications (Green and Orange LEDs)

Number of Ports: 1

Port Type: 10/100 Mbps

Part Number: AP-PBIAS-T-1P-48

Environmental Conditions

Operating Temperature: 32° to 122° F/0° to 50° C

Operating Humidity: 10 to 90% (no condensation allowed)

Storage Temperature: -4° to 158° F/-20° to 70° C

Storage Humidity: 10 to 90% (no condensation allowed)

Input Specifications

Input Voltage: 90 to 264 VAC (47-63 Hz)

Input Inrush Current: 110 to 240 VAC (60-50 Hz)

Input Current:

At 110 VAC 0.34 A (max)
At 220 VAC 0.17 A (max)

Input (Data in): RJ-5 female socket

Output Specifications

Output (Data & Power out): Ethernet 10/100Base-T, plus 48 VDC
(RJ-5 female socket, with DC voltage on wire pairs 7-8 and 4-5)

Nominal Output Voltage: 44 to 52 VDC

Output Power: 10 W

Compatibility

Supported Products: Access Port; Spectrum24 41x1 Access Point; Spectrum24 FH 302X (when used with Power Converter)

Regulatory

Compliance: CE Compliance

Electromagnetic Emission: FCC Part 15 Class B/ICES 003 Class B, EN55022 Class B, EN55024

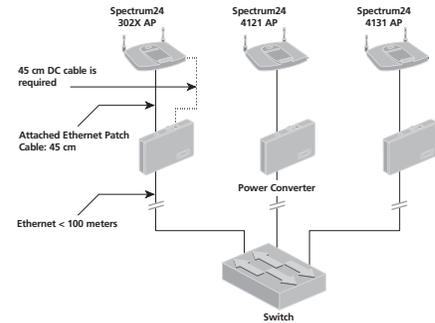
Safety: UL 60950, CSA C22.2 No. 60950, EN60950/IEC 950, CB Certification



Power Converter for Spectrum24 802.11b or Frequency Hopping Access Points Deployed in Powered Switch-based Wired LAN Environments



The Power Converter enables seamless integration of Symbol's award-winning Spectrum24 802.11b wireless LAN infrastructure with industry-leading wired LAN powered switches, providing power and data to Spectrum24 802.11b or 802.11 Frequency Hopping Access Points. The Power Converter supports Cisco proprietary Power-over-Ethernet, as well as 802.3af discovery methods.



Specification Highlights

Physical Characteristics	
Dimensions:	4.8 in. H x 3.0 in. W x 1.26 in. D/12.2 cm H x 7.6 cm W x 3.2 cm D
Weight:	7.5 oz/2.13 g
Mounting Options	Lie flat in ceiling; Fastened to wall; Fastened to ceiling
Number of Ports:	1
Port Types:	10/100 Mbps
Part Number:	AP-PCNV-4818
Environmental Conditions	
Operating Temperature:	-4° to 131° F/-20° to 55° C
Operating Humidity:	10 to 95% (no condensation allowed)
Storage Temperature:	-40° to 158° F/-40° to 70° C
Storage Humidity:	10 to 85% (no condensation allowed)
Operating Altitude	-1,000 to 8,000 ft./-304.8 to 2,438 m
Input Specifications	
Input Voltage:	36 to 57 VDC (48V nominal input)
Input/Output Isolation:	150 VAC per IEEE 802.3
Connectors:	RJ-45 (2) for Ethernet to Access Point and from Powered Switch or Mid-Span device
Output Specifications	
Nominal Output Voltage:	18V
Output Current Rating:	Maximum 0.38 Amps
Compatibility	
Supported Products:	Access Port; Spectrum24 4131 Access Point; Spectrum24 4121 Access Point; Spectrum24 3021 Access Point
Power Solutions/Hubs	Cisco 3524-PLOR-XL, Cisco Power Injectors, Cisco Power Hub, Symbol 12-Port Power Distribution, Symbol Power Injector; other 802.3af-based Power Sources
Regulatory	
Compliance:	CE Compliance
Electromagnetic Emission and Immunity:	FCC Part 15/ICES 003 Class B
Safety:	UL 60950, CSA C22.2 No. 60950, EN60950/IEC 950, UL 2043, Second Edition, 1996



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