© 2004 by B&B Electronics. All rights reserved.

B&B ELECTRONICS

PRODUCT INFORMATION

Quick Start Guide

5-Port Industrial 10/100 Ethernet Switch CE

Model IASW5P

Description

The IASW5P is an Industrial Ethernet switch. Switches have some advantages over hubs. For one, they remember which node is which and route the traffic accordingly. Also full-duplex or two-way communications can be realized with switches, making them more efficient than hubs.

This is no standard switch either, since the product is made for the unpredictable, industrial environment. It is housed in a sturdy, compact ABS enclosure with options to be either panel or DIN rail mounted.

Connections are straight forward. Each port is designed to auto negotiate for speed and connectivity. No crossover cables necessary. It will accept standard RJ45 UTP or STP cabling. Power supply is any unregulated 9-30 VDC source.

Diagnostic LEDs help troubleshooting and serve as a quick visual monitor. There is one red LED to indicate power. Each port has two LED's, an orange for speed and a green for link/activity.

Connections

Standard RJ45 female connectors are provided. Standard RJ45 plug cables are all that is necessary to connect your devices to the unit since the switch supports auto crossover. External power supply is connected using the 2-position pluggable terminal block. Power supply model 232PS4, 485PS4 or PS5R-A12 is required, not included.

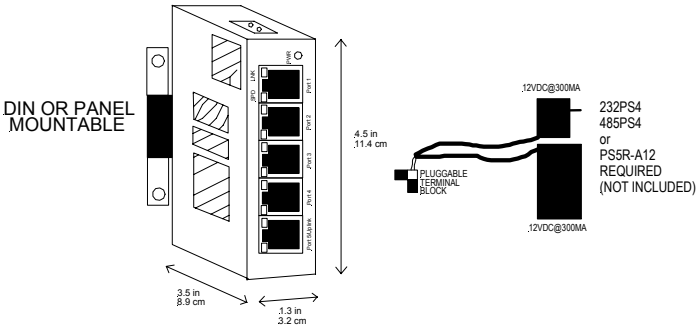
RJ45 Pinouts

Pin	Signal
1	TX+
2	TX-
3	RX+
4	not used
5	not used
6	RX-
7	not used
8	not used

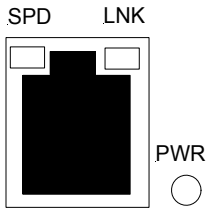
LED Indicators Summary

LED	Color	On	Off	Blinking
SPD	orange	100	10	reset/error
LNK	green	link	no link	data
PWR	red	power	no power	NA

Mechanical & Power Options



LED Indicators



B&B electronics MANUFACTURING COMPANY

International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
815-433-5100 Fax 433-5104 *www.bb-elec.com orders@bb-elec.com support@bb-elec.com*

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
+353 91 792444 Fax +353 91 792445 *www.bb-europe.com orders@bb-elec.com support@bb-europe.com*

© 2004 by B&B Electronics. All rights reserved.

B&B ELECTRONICS

PRODUCT INFORMATION

Specification Summary

Switch Type:	IEEE 802.3 & 802.3u
	Unmanaged Layer 2
Main Features:	Store-and-forward scheme
	Broadcast storm protection
	Automatic address learning, aging, and migration
	Full-duplex support
	Half -duplex back pressure flow control
	Aggressive back off in half-duplex mode to enhance performance
Speed:	Autodetecting 10/100 Mbps
LED:	Per port speed indicator
	Per port activity indicator
	Per unit power indicator
Frame Buffer:	64KB share by all ports
MAC Buffer:	1K (automatic learning, aging, and migration)
Isolation:	1500 VDC isolation magnetics
Bandwidth:	1.4Gbps high performance memory bandwidth
Connections:	5 RJ45 female jacks (auto MDI/MDIX crossover)
	2-position pluggable terminal block
Power:	9 – 30 VDC @ 3 W maximum
Approval:	FCC Class A, CE
Temperature:	0 to 70°C
Dimensions:	4.5 x 3.5 x 1.3 in (11.4 x 8.9 x 3.2 cm)

Warranty

All B&B Electronics products have a one-year warranty. Products that are damaged or modified are not covered.

Returns

If, for any reason, you wish to return one of our hardware products, you may return it via UPS or insured parcel post, undamaged, with the receipt, within 30 days of purchase, for a full refund (less shipping charges). Software is not returnable if opened. Large orders or custom orders may not be returnable or may be subject to a restocking charge. Call, FAX, or e-mail to request a Return Material Authorization (RMA) number and routing instructions. Packages returned without prior authorization will be refused. All products returned to B&B Electronics after 30 days may be charged a 20% restocking fee. Any customs charges including, duties, taxes and brokerage fees are the sole responsibility of the recipient.

Return and Repair Contact Information

Phone: (815) 433-5100 (8 – 4:30 CST)
Email: orders@bb-elec.com
Fax: (815) 433-5109

Approvals

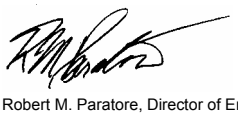
Federal Communications Commission

Radio Frequency Interface Statement

Class A Equipment

DECLARATION OF CONFORMITY

Manufacturer's Name:	B&B Electronics Manufacturing Company
Manufacturer's Address:	P.O. Box 1040 707 Dayton Road Ottawa, IL 61350 USA
Model Number:	IASW5P
Description:	5 Port Industrial 10/100 Ethernet Switch
Type:	Light industrial ITE equipment
Application of Council Directive:	89/336/EEC
Standards:	EN 55022 EN 61000-6-1 EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)



CE

Robert M. Paratore, Director of Engineering

B&B electronics MANUFACTURING COMPANY

International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
815-433-5100 Fax 433-5104 *www.bb-elec.com* *orders@bb-elec.com* *support@bb-elec.com*

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
+353 91 792444 Fax +353 91 792445 *www.bb-europe.com* *orders@bb-elec.com* *support@bb-europe.com*