

Compact, Unmanaged Ethernet Switches So many port combinations..

Great things do come in small packages. Our new ESW-Series Compact Ethernet Switches are industrial-hardened for demanding applications like industrial automation, SCADA, traffic control, water management, building control and more. All these little workhorses come in hardened cases that mount 7 different ways and feature broadcast storm protection and dual power inputs so you can run them on AC or DC power.

61000-6-2 Level 3 Heavy Industrial Certification. So?

For all its complicated nomenclature, this means that our ESW-Series switches meet a very high standard for immunity to the electrical fields generated by industrial equipment like motors, pumps and relays. So, no matter what other equipment you have, you can count on these switches to give you uninterrupted communication.

Specifications - At a Glance (for all ESW switches)

- Designed to meet heavy industrial environments, Level 3, 61000-6-2 specifications
- Built-in fiber optic options (multi-mode, single-mode)
- Fiber distances, 2km (multi-mode) and 20km (single-mode)
- Broadcast storm control
- Redundant power inputs, 12 to 36VDC and 10 to 24VAC
- 6 panel mount options or DIN Rail mount
- 100% burn in testing
- IEEE 802.3.802.3u/802.3x - Ethernet communications
- IEC60068-2 - shock and vibration tested



Ultra Compact

Less than 1" wide

Don't let the small size fool you. These Ultra-Compact switches are built to the same heavy industrial spec as the rest of the ESW Series. Wherever space is at a premium, they'll slot right in. Once installed they barely take more room than just the connectors themselves. And, with LC fiber ports, you can add single or multi-mode fiber options without a bigger box.

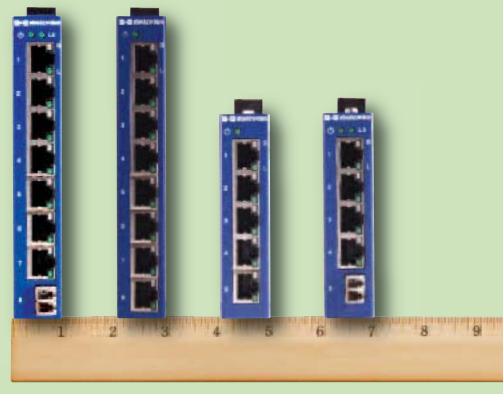
Ultra Compact: Temperature range -10 to 60°C

Model No.	10/100	Multi-Mode Fiber	Single-Mode Fiber
ESW105	5		
ESW105-ML	4	1 (LC)	
ESW105-SL	4		1 (LC)
ESW108	8		
ESW108-ML	7	1 (LC)	
ESW108-SL	7		1 (LC)

You May Also Need...

CSUMB3FBG	Ethernet Category 5e patch cord, 3ft (0.9m), beige
CSUMB7FBG	Ethernet Category 5e patch cord, 7ft (0.9m), beige
DR19RMKT	Adjustable 19-inch Rack Mount Kit - see p114
MDR-20-24	DIN rail mount power supply 24VDC, 1.0 A output power
MDR-40-24	DIN rail mount power supply 24VDC, 1.7 A output power

Yes, They're This Small!



At less than 1" wide, these ultra-compact switches take up very little room on your panel or in your cabinet.

..in so little space

Compact

More fiber options and wide-temp

If you need more fiber ports, or the extra resilience of wide-temp, then the ESW 200 Series is for you. They come in 8 different copper, and single and multi-mode fiber port combinations, all with your choice of SC or ST connectors on the fiber ports. Same heavy industrial specs, same features, more possibilities.

Why Wide-Temp matters

We may sit in air conditioned offices, but our equipment doesn't always. Just by being in a cabinet, your Ethernet switch experiences temperatures 10°C warmer than the surrounding air – more if there are other devices and multiple power supplies inside. Industrial enclosures near motors or drives get even hotter. If the sun hits the enclosure, it can be like the inside of your car on a summer day with the windows up. Even if you don't work in a steel mill, a wide-temp device can give you extra reliability and peace of mind.



Slimline: Temperature range -10 to 60°C

Model No.	10/100	Multi-Mode Fiber	Single-Mode Fiber
ESW205	5		
ESW205-MT	4	1 (ST)	
ESW205-MC	4	1 (SC)	
ESW205-ST	4		1(ST)
ESW205-SC	4		1(SC)
ESW208	8		

Compact: Temperature range -10 to 60°C

Model No.	10/100	Multi-Mode Fiber	Single-Mode Fiber
ESW208	8		
ESW208-2MT	6	2 (ST)	
ESW208-2MC	6	2 (SC)	
ESW208-2ST	6		2 (ST)
ESW208-2SC	6		2 (SC)

Wide Temperature range -40 to 75°C

Model No.	10/100	Multi-Mode Fiber	Single-Mode Fiber
ESW205-T	5		
ESW205-MT-T	4	1 (ST)	
ESW205-MC-T	4	1 (SC)	
ESW205-ST-T	4		1(ST)
ESW205-SC-T	4		1(SC)
ESW208-T	8		
ESW208-2MT-T	6	2 (ST)	
ESW208-2MC-T	6	2 (SC)	
ESW208-2ST-T	6		2 (ST)
ESW208-2SC-T	6		2 (SC)
ESW208-4MT-T	4	4 (ST)	
ESW208-4MC-T	4	4 (SC)	
ESW208-4ST-T	4		4 (ST)
ESW208-4SC-T	4		4 (SC)



You May Also Need...

CSUMB3FBG	Ethernet Category 5e patch cord, 3ft (0.9m), beige
CSUMB7FBG	Ethernet Category 5e patch cord, 7ft (0.9m), beige
DR19RMKT	Adjustable 19-inch Rack Mount Kit – see p114
MDR-20-24	DIN rail mount power supply 24VDC, 1.0 A output power
MDR-40-24	DIN rail mount power supply 24VDC, 1.7 A output power

NEW! Industrial Ethernet Switches

Ethernet Switches & Media Converters

Need even more ports?
See 19" rack mount switches
pages 56-57



More products available at bb-elec.com:



B & B electronics
MANUFACTURING COMPANY

A11

ESW500 Series 8, 10, and 16-port Managed Ethernet Switches

Industrial, 10/100 Ethernet switches - with Gigabit options



B&B Electronics managed line of industrial DIN rail or panel mount Ethernet switches are industrial hardened for rugged applications such as traffic control, water management, industrial automation, SCADA, building control, warehousing, and more.

Specifications

- Light industrial design 61000-6-1 specifications
- Temperature rating: -10 to 60°C (standard) or wide -40 to 75°C (-T models)
- Built in fiber optic options (multi-mode, single-mode SC or ST ports)
- Gigabit options with copper and SFP combo ports
- Power inputs
 - 12V - 36VDC (All Models)
 - 10V - 24 VAC (All ESW508, ESW516 Series)
- 100% burn in testing
- 5 year warranty

Web-based Management

Each switch has an embedded HTML web site residing in flash memory offering advanced management features allowing users to manage the switch from anywhere on the network through a standard web browser.

Port Mirroring

Port mirroring is a method for monitoring traffic in switched networks. Packets transmitted and received by a port can be mirrored to another specified port. This allows network administrators to monitor traffic.

VLAN Configuration

A Virtual LAN (VLAN) is a logical network grouping that limits the broadcast domain allowing you to isolate network traffic so that members of a VLAN will only receive traffic from other members of the same VLAN. Creating a VLAN from a switch is the logical equivalent of reconnecting a group of network devices to another Layer 2 switch. However, since it is a virtual network, the network devices remain connected to the same switch physically. Both port-based and 802.1Q (tagged-based) VLAN are supported.

IGMP

Internet Group Management Protocol (IGMP) is a communications protocol used to manage the membership of Internet Protocol multicast groups. IGMP is used by IP hosts to establish multicast group memberships. This allows the port to detect IGMP query and report packets and manage IP multicast traffic through the switch.



ESW500 Series

Managed Specifications

- Web browser management
- IEEE802.1D STP
- IEEE802.1W RSTP
- RingOn™: Recovery Time within 15ms
- IEEE802.1p Class of Service
- IEEE802.1Q VLAN Tagging
- IEEE802.1ad Port Trunk with LACP
- IEEE802.1x Port-Based Access Control
- Protocols:
 - SNMP V1/V2/V3
 - DHCP Server
 - SNTP
 - SMTP
 - IGMP Snooping/GMRP
 - LACP
 - RMON
 - HTTPS
 - Telnet
 - Syslog
 - HTTP
- Priority Queues: 4
- IGMP Groups: 64
- Maximum VLANs: 256
- VLAN ID Range: 1 to 4096

Model No.	10/100	10/100/1000	SFP 1000	Multi-mode Fiber	Single-mode Fiber	Temperature
ESW508	8					-10 to 60°C
ESW508-2MC	6			2 (SC)		-10 to 60°C
ESW508-2SC	6				2 (SC)	-10 to 60°C
ESW516	16					-10 to 60°C
ESW508-T	8					-40 to 75°C
ESW508-2MC-T	6			2 (SC)		-40 to 75°C
ESW508-2SC-T	6				2 (SC)	-40 to 75°C
ESW516-T	16					-40 to 75°C
ESW516-4MC-T	12			4 (SC)		-40 to 75°C
ESW516-4SC-T	12				4 (SC)	-40 to 75°C
ESWG510-2SFP-T	8	(2)	(2)			-40 to 75°C
ESWG510-2MC-2SFP-T	6	(2)	(2)	2 (SC)		-40 to 75°C
ESWG510-2SC-2SFP-T	6	(2)	(2)		2 (SC)	-40 to 75°C

(port#) indicates a combination port meaning the copper media is shared with the SFP slot. Once the SFP slot is filled with an SFP module, the copper port is disabled.

You May Also Need...

DR-120-24	120W DIN-Rail 24 VDC Power Supply
DR19RMKT	Adjustable 19-inch Rack Mount Kit - see p114
CSUMB3FBG	Ethernet Category 5e patch cord, 3ft (0.9m), beige
CSUMB7FBG	Ethernet Category 5e patch cord, 7ft (0.9m), beige
SFP-1000SX-M-550M-T	SFP Module, 1000Base-SX, Multi-mode 550m, LC Connector (-40 to 85°C)
SFP-1000LX-S-10KM-T	SFP Module, 1000Base-LX, Single-mode 10km, LC Connector (-40 to 85°C)
SFP-1000LX-S-20KM-T	SFP Module, 1000Base-LX, Single-mode 20km, LC Connector (-40 to 85°C)

