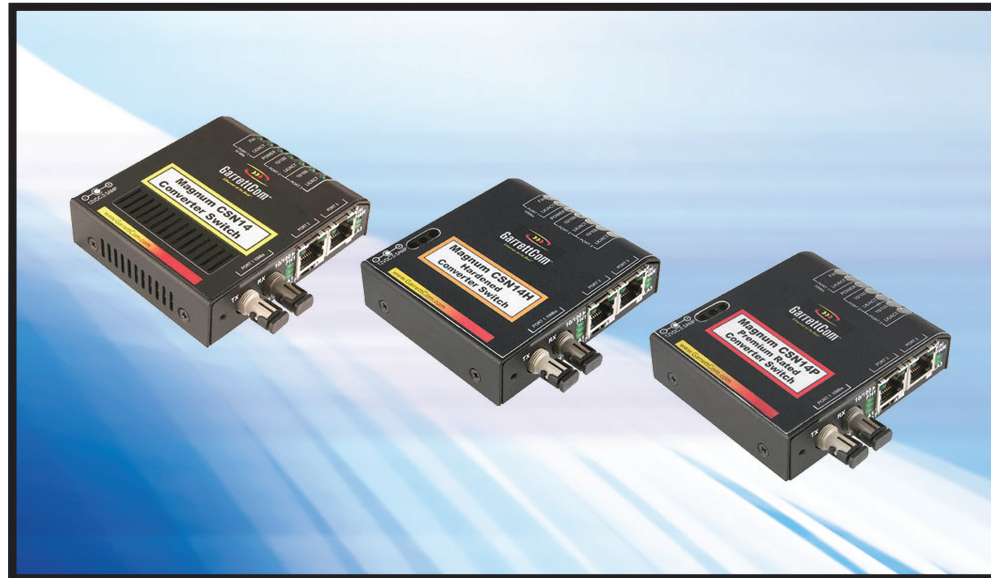


PB00107

### Magnum CSN14 Converter Switch with 10 Mb Fiber

Versatile solution for any application requiring a 10 Mb fiber link connected to one or two 10/100 copper devices



**This switch family covers the full range of application environments, with Regular (office), Hardened (factory floor) and Premium-rated (outdoor) versions. Compact design makes these switches ideal for edge-of-network use.**

#### Features:

- Provides one 10 Mb fiber port and two (2) 10/100 copper switch ports
- Two RJ45 ports support IEEE 802.3u to enable attaching any 10 Mb or 100 Mb device
- AC power for all models, Factory Floor and Outdoor models also have integral DC terminal blocks
- Same packaging and mounting options as the popular Magnum 14-Series Media Converters

For any user who needs a 10 Mb fiber link connected to one or two 10/100 copper devices, the "go anywhere" Magnum CSN14 Converter Switch is a versatile and handy solution.

The Magnum CSN14 family of Converter Switches, with a 10 Mb Fiber port built in covers the full range of application environments with regular (office), Hardened (factory floor), and Premium-rated (outdoor) versions. Extra features for heavy-duty and extended temperature operation ranges are included selectively in the Hardened factory-floor and Premium-rated outdoor models. This selection of models offers the best price-to-value ratio for each user and installation. The compact package is ideal for "edge of the network" installation, and can be conveniently mounted to suit any application.

## Applications



### Office and Wiring Closet

The Magnum CSN14 regular-package units are for office and indoor wiring closet environments. These are the economical base units in the CSN14 Switch family. An external AC power supply for either North America (-d, 115vac 60Hz) or international (-I, 230vac, 50Hz) is included. The ambient temperature rating is 0° to 40°C, office grade. A robust metal case with convection cooling is featured.



### Hardened for Factory Floor

The Magnum CSN14H Hardened units are for factory floor applications. The CSN14H models are built with high-grade components and are constructed using special thermal techniques and a metal case for heavy duty industrial jobs. In addition to a Hardened AC power option and jack, terminals for internal DC power choices at 8 to15V, 24V or -48V DC are included. The ambient temperature rating is for industrial use. No internal air flow is required for cooling, so it resists dust, dirt, moisture, smoke and insects.

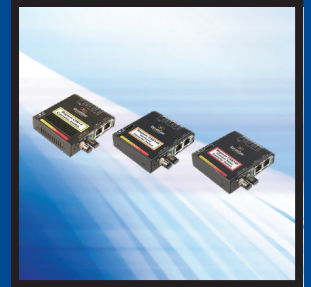


### Premium-rated for Outdoors

The Magnum CSN14P Premium-rated units are for temperature uncontrolled sheltered applications, typically located outdoors. The CSN14P models are built with premium-grade extended temperature components, and use similar thermal techniques as the CSN14H Hardened units. In addition to a Premium-rated AC power option and jack, terminals for internal DC power choices at 8 to15V, 24V or -48V DC are included. When used outdoors, the CSN14P should be sheltered from the elements.

## Technical Information

	CSN14	CSN14H	CSN14P
<b>Performance</b>			
<b>Fiber Port</b>	10 Mb HDX/FDX, ST connectors for multi-mode or single-mode		
<b>RJ45 Ports Data Rate</b>	10 / 100 Mb, FDX and HDX modes Auto-negotiation and auto-cross MDI-MDIX on both RJ45 ports occurs at LINK-enable No crossover cables required		
<b>Non-blocking Switching</b>	128KB packet buffer memory		
<b>Address Buffer Storage</b>	2K addresses		
<b>Address Buffer Age-out Time</b>	300 seconds		
<b>Network Standards</b>			
<b>Compliance With</b>	Ethernet IEEE 802.3, IEEE 802.3u, 802.1p; 100BASE-TX, 10BASE-T, 10BASE-FL		
<b>VLANs Support</b>			
<b>Description</b>	Data packets that have the 4 bytes tagged VLAN field (IEEE 802.1q) inserted in them are received and transmitted unchanged by all CSN14 Converter Switches		
<b>Operating Environment</b>			
<b>Ambient Temperature Ratings</b>	0°C to 40°C	-25°C to 60°C long term per independent agency tests (UL), or -40°C to 85°C short term per IEC Type Tests	-40°C to 75°C long term per independent agency tests (UL), or -50°C to 100°C short term per IEC Type Tests.
<b>Cold Start</b>		-20°C	-40°C
<b>Ambient Relative Humidity</b>	5% - 95% (non-condensing) Conformal coating (humidity protection) optional, request quote		
<b>Altitude</b>	-200 to 50,000 ft. (-60 to 15,000m)		
<b>NEBS Compliance</b>	Yes Including vibration, shock, altitude		



**Technical Information** (continued)

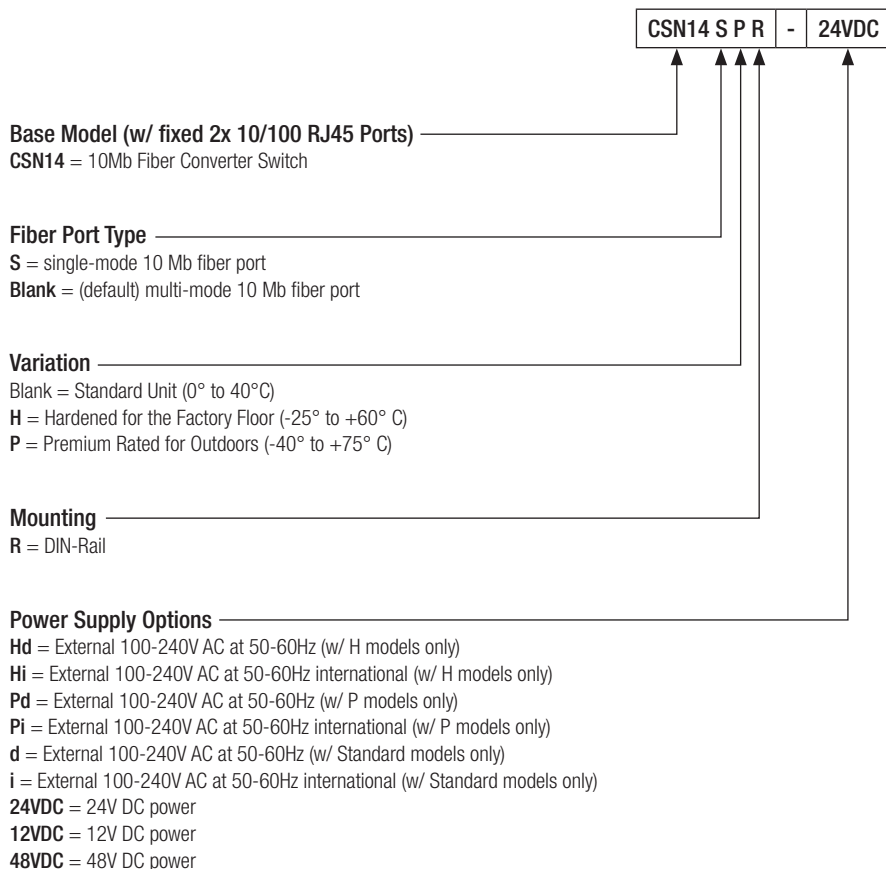
	CSN14	CSN14H	CSN14P
<b>Packaging</b>			
<b>Enclosure</b>	Robust sheet metal (steel); H&P models: IEC 529 rated IP40		
<b>Unit Dimensions</b>	3.5 in H x 3.0 in W x 1.0 in D (8.9 cm x 7.6 cm x 2.5 cm)		
<b>Weight</b>	CSN14 Switch Units: 8.6 oz (243g)		
Power Supply	d, i: 5.8 oz (165g)	Hd, Hi: 5.8 oz (165g)	Pd, Pi: 7.9 oz (225g)
<b>Cooling Method</b>	Convection	Convection, case used as a heat sink	
<b>Switches</b>			
<b>Fiber Port</b>	Manual selection of HDX or FDX (default is HDX)		
<b>Connectors</b>			
<b>RJ45 with auto-cross, 100BASE-TX and 10BASE-T</b>	Shielded 8-pin female Supports shielded (STP) and unshielded (UTP) Cat. 3, 4, 5		
<b>LED Indicators (dual, top front, in end)</b>			
<b>Power</b>	ON for power applied		
<b>10/100 per RJ45 Port</b>	Steady ON for 100 Mb, OFF for 10 Mb speed		
<b>LK/ACT per Port</b>	Steady ON for LINK with no traffic, blinking for Activity		
<b>F/H per Port In End</b>	Steady ON for F/D mode, OFF for H/D mode		
<b>Power</b>			
<b>Power Supplies for AC (External)</b>	95-125V AC at 60 Hz for "-d" models, 215-240V AC at 50 Hz for "-i" models that have IEC power connector in the ext. power unit	100-240V AC at 47-63 Hz for "-Hd" and "Hi" models, see footnote 1	100-240V AC at 47-63 Hz for "-Pd" and "Pi" models, see footnote 2
	Power input DC jack (8 to 15V) is 2.5mm, center +ve, with 6ft. DC cord		
<b>Power Input Options for DC</b>	12V DC, internal (range of 8.0 to 15V DC), built-in screw terminal block for +, -, ground. The 12V DC jack is also present. 24V DC internal (range of 10 to 36V DC) built-in screw terminal for +, -, ground. The DC jack is also present, see footnote 3 -48V DC internal (range of 30 to 60V DC), built-in screw terminal block for +, -, ground. The 12V DC jack is also present. <i>Note1:</i> the 12V DC jack can be used for dual source DC power input <i>Note2:</i> internal DC power floats, user may ground + or - if desired.		
<b>Power Consumption</b>	5 Watts typical. 6 Watts max		
<b>Approvals/Standards Compliance</b>			
<b>All Models</b>	UL listed (UL60950), cUL, CE, Emissions meet FCC Part 15, Class A NEBS L3 and ETSI compliant, including vibration, shock, and altitude Compliant with EN50155 Railway Applications Standard IEC 61850 EMC and Operating Conditions Class C for Power Substations		
<b>H and P Models</b>	IEEE 1613 Env. Std for Electric Power Substations		
<b>P Model</b>	NEMA TS-2 and TEES for traffic control equipment Designed for above-the-ceiling (plenum) installation		
<b>Warranty</b>			
<b>Made in USA</b>	Three [3] years		
<b>Mounting</b>			
<b>Metal Panel Mounting</b>	Clips included		
<b>Rack-Mount</b>	Model MC14-TRAY. Depth: 6.0", Width 17", Height 2.25" (15 cm D x 43cm W x 5.7cm H)		
<b>DIN-Rail Mounting</b>	Model # DIN-RAIL MC2		



1: External 12V1A power supply, wall plug or power cord for North America AC receptacles. Temperature rating same as S14H, see above. (North America: for spare, order Model PSH-12V1A-Hd. Intl: order Model PSH-12V1A-Hi with IEC plug).

2: External 12V1A power supply, rated for outdoor temperatures same as S14P, see above. Universal AC input with recessed IEC plug. (North America: for spare, order Model PSP-12V1A-Pd, Intl: order Model PSP-12V1A-Pi with IEC plug).

## Magnum CSN14 Configuration Guide



### About Belden

Belden Inc., a global leader in high quality, end-to-end signal transmission solutions, delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio and video needed for today's applications, Belden is at the center of the global transformation to a connected world. Founded in 1902, the company is headquartered in St. Louis, USA, and has manufacturing capabilities in North and South America, Europe and Asia.

For more information, visit us at [www.belden.com](http://www.belden.com) and follow us on Twitter @BeldenIND.

Got questions? Need to talk to an expert? Send us an email:  
EMEA: [garrettcomsalesinfo@belden.com](mailto:garrettcomsalesinfo@belden.com) US: [ICS.Security@belden.com](mailto:ICS.Security@belden.com)