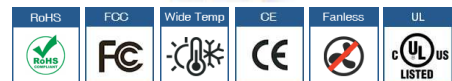


# HES5B/8B Series

## 5 and 8-port Din-rail Entry-level Unmanaged Ethernet Switches

### Features

- 5 or 8 port, copper and LC fiber port options
- UL/cUL Class I/Division 2 Groups A,B,C, and D
- Designed to meet Level 3 (Heavy) industrial environments
- EN61000-6-2 Certifications
- Shock, vibration, free fall tested
- IP30 rated DIN rail case with 6 different panel mount options



### Introduction

The HES5B/8B series of industrial Ethernet switches are entry-level industrial 5 and 8-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The HES5B/8B switches are rated to operate at temperatures ranging from -10 to 60°C, or with a wide operating temperature range from -40 to +75°C. The switches can be easily installed on a DIN-rail as well as in distribution boxes. The DIN-rail mounting capability, wide operating temperature, and the IP30 housing with LED indicators make the plug-and-play HES5B/8B switches easy to use and reliable

### Specifications

Technology	
Standard	IEEE802.3, 802.3u, 802.3x
Processing Type	Store and forward with IEEE802.3x full duplex, non-blocking flow control
Protocols	IEEE802.3x flow control, back pressure flow control
Switch Properties	
MAC Table Size	2K
Interface	
RJ45 Port	10/100BaseT(X) auto negotiationspeed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Ports	100BaseFX, (multi-mode or single mode with LC connectors)
LED Indicators	Power, (Link / Speed / Activity for each port)
Power Requirements	
Input Voltage	12~36VDC and 10~24VAC
Power Consumption	4w Max
Input Connection	Removable Terminal Block
Protection	Reverse Polarity Protection

Physical Characteristics		
Case	Slim Metal Case, IP30 Design	
Dimensions	HES5B: 25×100×75mm	HES8B: 24×145×75mm
Installation	DIN Rail or Panel Mounting	
Optical Fiber		
Mode	Multi-mode	Single Mode
Transmission Distance	2km	20km
Centre Wavelength	1310nm	1310nm
Cable Size	62.5/125um	9/125um
TX Power(dBm)	-20 to -10dBm	-15 to -8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps
Environment Limits		
Operating Temp	Standard Models: -10°C to 60°C Wide Temp. Models: -40°C to 75°C	
Storage Temp	-40°C to 85°C	
Ambient Relative Humidity	5 to 95%(Non-condensing)	
Standards and Certifications		
Safety	cUL508	
EMI	FCC Part15, CISPR(EN55022) Class A	
EMS	EN61000-4-2(ESD) Level 3, EN61000-4-3(RS) Level 3, EN61000-4-4(EFT) Level 3, EN61000-4-5(Surge) Level 3, EN61000-4-6(CS) Level 3, EN61000-6-2	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32	
Vibration	IEC 60068-2-6	
Warranty		
Warranty Period	3 years	

## Ordering Information

HES5B	
HES5B-VL	Entry-level Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES5B-VLW	Entry-level Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC
HES5B-LC-VL	Entry-level Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connectors, 2KM, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES5B-LC-VLW	Entry-level Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connectors, 2KM, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC
HES5B-SLC-VL	Entry-level Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connectors, 20KM, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES5B-SLC-VLW	Entry-level Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connectors, 20KM, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC
HES8B	
HES8B-VL	Entry-level Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES8B-VLW	Entry-level Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC
HES8B-LC-VL	Entry-level Din-rail Unmanaged, 7 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connectors, 2KM, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES8B-LC-VLW	Entry-level Din-rail Unmanaged, 7 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with LC Connectors, 2KM, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC
HES8B-SLC-VL	Entry-level Din-rail Unmanaged, 7 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connectors, 20KM, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES8B-SLC-VLW	Entry-level Din-rail Unmanaged, 7 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with LC Connectors, 20KM, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC