![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

HES5A/8A Series

5 and 8-port Din-rail Unmanaged Ethernet Switches

Features

- UL/cUL Class I Division 2 Groups A,B,C, and D
- Shock, vibration, tested
- 10/100M, full/half duplex, MDI/MDI-X (Auto-negotiate)
- Industrial IP30 rated DIN rail case with 6 way panel mount options
- Dual power inputs, 12 to 36 VDC and 10 to 24 VAC
- Operating temperature:-10°C to 60°C (Standard); -40°C to 75°C (W models)
- 100% burn in testing

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Introduction

Designed to fit Industrial and Commercial applications, the HES5A (5 ports) and HES8A (8 ports) series are plug and play Ethernet switches with compact IP30 DIN rail enclosure, 6 way panel mounting. Convenient LEDs for Power, (Link / Speed / Activity for each port). Powering options include 12 to 36 VDC or 10 to 24 VAC.

Choose a switch with copper ports, or a combination of copper and fiber ports. Multi-mode fiber models extend range up to 2 km. Single-mode fiber models extend range up to 20 km. All models require an external power supply (sold separately).

The switch ships with 4 panel mount clips giving the user 6 different ways to panel mount the unit.

Specifications

Technology	
Standard :	IEEE802.3, 802.3u, 802.3x
Processing Type :	Store and Forward
Broadcast Storm :	Automatic Broadcast Storm Control
Flow Control :	Full Duplex Flow Control, Half Duplex Back Pressure Control
Protocols :	CSMA/CD (Carrier Sense Multiple Access/Collision Direct)

Switch Properties	
MAC Table Size :	2K

Interface	
RJ45 Port :	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port :	100BaseFX ports (SC/ST connector)
LED Indicators :	Power, (Link / Speed / Activity for each port)

Power Requirements	
Input Voltage :	HES5A: 12~36VDC @ 6.5W MAX; 10~24VAC @ 6.5VA MAX; HES8A: 12~36VDC @ 12.5W MAX; 10~24VAC @ 12.5VA MAX;
Input Connection :	Standard four terminal power input

Physical Characteristics	
Case :	Slim Metal Case, IP30 Design
Dimensions :	30×112.4×75.2mm (HES5A) 46×130×105mm(HES8A)
Installation :	DIN Rail or Panel Mounting

Environment Limits	
Operating Temp. :	Standard Models: -10 to 60˚C Wide Temp. Models: -40 to 75˚C
Storage Temp. :	-40 to 85˚C
Ambient Relative Humidity :	5 to 95%(Non-condensing)

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~-10dBm	-15~-8dBm
RX Power(dBm)	< -32dBm	< -32dBm
Transmission Rate	100Mbps	100Mbps

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 UL Class 1, Division 2, Groups A, B, C, and D
Shock :	IEC 60068-2-27
Freefall :	IEC 60068-2-32
Vibration :	IEC 60068-2-6

Warranty	
Warranty Period :	3 years

Ordering Information

HES5A

HES5A-VL	Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-VLW	Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES5A-SC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-SC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-SSC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-SSC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 1 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES5A-2SC-VL	Din-rail Unmanaged, 3 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-2SC-VLW	Din-rail Unmanaged, 3 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES5A-2SSC-VL	Din-rail Unmanaged, 3 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES5A-2SSC-VLW	Din-rail Unmanaged, 3 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector

HES8A

HES8A-VL	Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES8A-VLW	Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES8A-2SC-VL	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES8A-2SC-VLW	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES8A-2SSC-VL	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES8A-2SSC-VLW	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES8A-4SC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES8A-4SC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC
HES8A-4SSC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Temperature -10~+60°C, Power Input 12~36VDC or 10~24VAC
HES8A-4SSC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 20KM, Industrial Wide Temperature -40~+75°C, Power Input 12~36VDC or 10~24VAC

Note: All of the Above Products SC Connector can be replaced by ST Connector