

Product Information

HES10-2G Series

8+2G-Port Din-rail Gigabit Unmanaged Ethernet Switches



Features

- ❖ Up to 2 Gigabit Combo Ports
- ❖ Fiber optic options for extending distance and electrical noise immunity
- ❖ IEEE802.3, 802.3u, 802.3ab, 802.3z, 802.3x
- ❖ Sturdy Metal Enclosure , IP40 Protection Level
- ❖ -40 to +75°C Operating Temperature Range (W models)
- ❖ Redundant Power Input , 12~36VDC or 10~24VAC

Introduction

The HES10-2G series Industrial Gigabit Unmanaged Ethernet Switches are equipped with 2 gigabit combo ports, and up to 8 copper ports or 4 fiber ports with SC, ST or FC connectors. The switches are of high integration and reliability in a small package, making them ideal for applications that demand high bandwidth. The HES10-2G switches provide an economical solution for your industrial Ethernet connection. There are two choices for redundant power inputs, 12~36VDC or 10~24VAC. The operating temperature ranges from -40°C to +75°C. The model is subject to a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

Specifications

Technology			
Standard :	IEEE802.3, 802.3u, 802.3x, 802.3ab, 802.1Q, 802.1p,		
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 :	8K		
Interface			
RJ45 Port :	10/100BaseT(X)		
Fiber Ports :	100BaseFX ports (SC/ST connector)		
Fiber Module :	1000Base-LX or 1000Mbps full duplex, single/multi mode, single/dual fiber, SFP/LC/SC/ST connectors		
LED Indicators :	Power, Port Status, 10/100/1000M		
Power Requirements			
Input Voltage :	12~36VDC @ 15W MAX 10~24VAC @ 15W MAX		
Input Connection :	Standard four terminal power input		
Physical Characteristics			
Case :	Slim Metal Case, IP40 Design		
Dimensions :	82.5×138×122.3mm		
Installation :	DIN Rail or Panel Mounting		
Optical Fiber			
Mode	Multi-mode	Single Mode	Single Mode
Transmission Distance	2km	20km	20km
Centre Wavelength	1310nm	1310nm	1310nm
Cable Size	62.5/125um	9/125um	9/125um
TX Power(dBm)	-20~-10dBm	-15~-8dBm	-8~-2dBm
RX Power(dBm)	< -32dBm	< -32dBm	< -24dBm
Transmission Rate	100Mbps	100Mbps	1000Mbps
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)		
Standards and Certifications			
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

HES10-2G Series

HES10-2G-VL	Din-rail Unmanaged, 8 x 100Mbps Copper Port, 2 x Gigabit Combo Port, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-VLW	Din-rail Unmanaged, 8 x 100Mbps Copper Port, 2 x Gigabit Combo Port, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-2SC-VL	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-2SC-VLW	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-2SSC-VL	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-2SSC-VLW	Din-rail Unmanaged, 6 x 100Mbps Copper Port, 2 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-4SC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-4SC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Multi-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 2km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-4SSC-VL	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES10-2G-4SSC-VLW	Din-rail Unmanaged, 4 x 100Mbps Copper Port, 4 x 100Mbps Single-Mode Fiber Port with SC Connectors, 2 x Gigabit Combo Port, 20km, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC

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