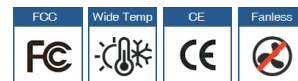# HES16G Series

16G-port Din-rail Full Gigabit Unmanaged Ethernet Switches

Features

- Up to 8 Gigabit Copper Port, 4 Gigabit LC Fiber Port and 4 Gigabit SFP Slots
- Fiber optic options for extending distance and electrical noise immunity
- IEEE802.3, 802.3u, 802.3ab, 802.3z, 802.3x
- Sturdy Metal Enclosure , IP30 Protection Level
- -40 to +75°C Wide Operating Temperature Range (W models)
- Redundant Power Input , 12~36VDC or 10~24VAC

Introduction

The HES16G series are full Gigabit switches, equipped with 8 Gigabit copper port, 4 Gigabit fiber port with LC connector and 4 Gigabit SFP fiber port. The switches is of high integration and reliability in a small package , making them ideal for applications that demand high bandwidth. The HES16G switches provide an economical solution for your industrial Gigabit Ethernet connection. There are two choices for redundant power inputs, 12~36VDC or 10~24VAC.The operating temperature range from -40 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, 802.3z
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 Ac-cess/Collision Direct)
Switch Properties	
MAC Table Size	4K
Interface	
RJ45 Port	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Optical Ports	1000Mbps full duplex, single/multi mode, single/dual fiber, LC/SFPconnectors
LED Indicators	Power, Port Status, 10/100/1000M
Power Requirements	
Input Voltage	12~36VDC @ 26W MAX 10~24VAC @ 26VA MAX
Input Connection	Standard four terminal power input

Physical Characteristics	
Case	Slim Metal Case, IP30 Design
Dimensions	70×149.7×133.1mm
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)
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

HES16G-4SFP-4LC-VL	Din-rail Unmanaged, 8 x Gigabit Copper Port, 4 x LC Gigabit Fiber Port, 4 x SFP Gigabit Fiber Port, 2KM, Multi Mode Dual Fiber, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES16G-4SFP-4LC-VLW	Din-rail Unmanaged, 8 x Gigabit Copper Port, 4 x LC Gigabit Fiber Port, 4 x SFP Gigabit Fiber Port, 2KM, Multi Mode Dual Fiber, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC
HES16G-4SFP-4SLC-VL	Din-rail Unmanaged, 8 x Gigabit Copper Port, 4 x LC Gigabit Fiber Port, 4 x SFP Gigabit Fiber Port, 20KM, Single Mode Dual Fiber, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES16G-4SFP-4SLC-VLW	Din-rail Unmanaged, 8 x Gigabit Copper Port, 4 x LC Gigabit Fiber Port, 4 x SFP Gigabit Fiber Port, 20KM, Single Mode Dual Fiber, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC