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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!



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# Product Information

## HES5G Series

### 5G-port Din-rail Full Gigabit Unmanaged Ethernet Switches



### Features

- ❖ 5 10/100/1000BaseTX ports
- ❖ Redundant dual 12~36VDC power inputs
- ❖ EMC performance reaches industrial level 3
- ❖ Broadcast storm protection
- ❖ -40°C to +75°C operating temperature range (W models)
- ❖ IP30 DIN Rail or Panel Mount



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## Introduction

The HES5G series are equipped with 5 Gigabit Ethernet ports, making them ideal for applications that demand high bandwidth. The HES5G switches provide an economical solution for your industrial Gigabit Ethernet connection, and the built-in relay warning function alerts network managers when power failures or port breaks occur. The HES5G series includes 2 models: one with an operating temperature range from -10 to 60°C, and the other one with an extended operating temperature range from -40 to +75°C. Both models are subject to a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

## Specifications

<b>Technology</b>		<b>Environment Limits</b>	
Standard :	IEEE802.3, 802.3u, 802.3x, 802.3ab	Operating Temp. :	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C
Processing Type :	Store and forward	Storage Temp. :	-40 to 85°C
Broadcast Storm :	Automatic Broadcast Storm Control	Ambient Relative Humidity :	5 to 95%(Non-condensing)
Flow Control :	Full Duplex Flow Control, Half Duplex Back Pressure Control	<b>Standards and Certifications</b>	
Protocols :	CSMA/CD (Carrier Sense Multiple Access/Collision Direct)	EMI :	FCC Part15, CISPR(EN55022) Class A
<b>Switch Properties</b>		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
MAC Table Size :	4K	Shock :	IEC 60068-2-27
<b>Interface</b>		Freefall :	IEC 60068-2-32
RJ45 Port :	10/100/1000BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection	Vibration :	IEC 60068-2-6
LED Indicators :	Power, Port Status, 10/100/1000M	<b>Warranty</b>	
<b>Power Requirements</b>		Warranty Period :	3 years
Input Voltage :	12~36VDC @ 10W MAX 10~24VAC @ 10VA MAX		
Input Connection :	Standard four terminal power input		
<b>Physical Characteristics</b>			
Case :	Slim Metal Case, IP30 Design		
Dimensions :	29.6×109.5×91.8mm		
Installation :	DIN Rail or Panel Mounting		

## Ordering Information

### HES5G

HES5G-VL	Din-rail Unmanaged, 5 x Gigabit Copper Port, Industrial Temperature -10°C to +60°C, Power Input 12~36VDC or 10~24VAC
HES5G-VLW	Din-rail Unmanaged, 5 x Gigabit Copper Port, Industrial Wide Temperature -40°C to +75°C, Power Input 12~36VDC or 10~24VAC