

# Slim size Full-Giga Switch for Automation

## DS208

### Industrial 8G Ethernet Switch

The 8-port Full-Giga Ethernet switch DS208 is designed to accept wide power input range from 9.6 to 60VDC and complying with heavy industrial EMC standard. The rugged IP40 design can stand for harsh environment and wide temperature (from -40 to 70°C) use. The compact size can fit in for space limited cabinets. DS208 has power saving design for Efficient Power Management.



### Features & Benefits

#### Full Gigabit Switching

- 8-port Full-Giga Ethernet with Auto Negotiation
- 4K MAC address table
- Support 9K Jumbo Frame
- Support Broadcast storm protection
- Stores and forwards with non-blocking switch fabric

#### IEEE 802.3az EEE Power Management

- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

#### Rugged Mechanical Design

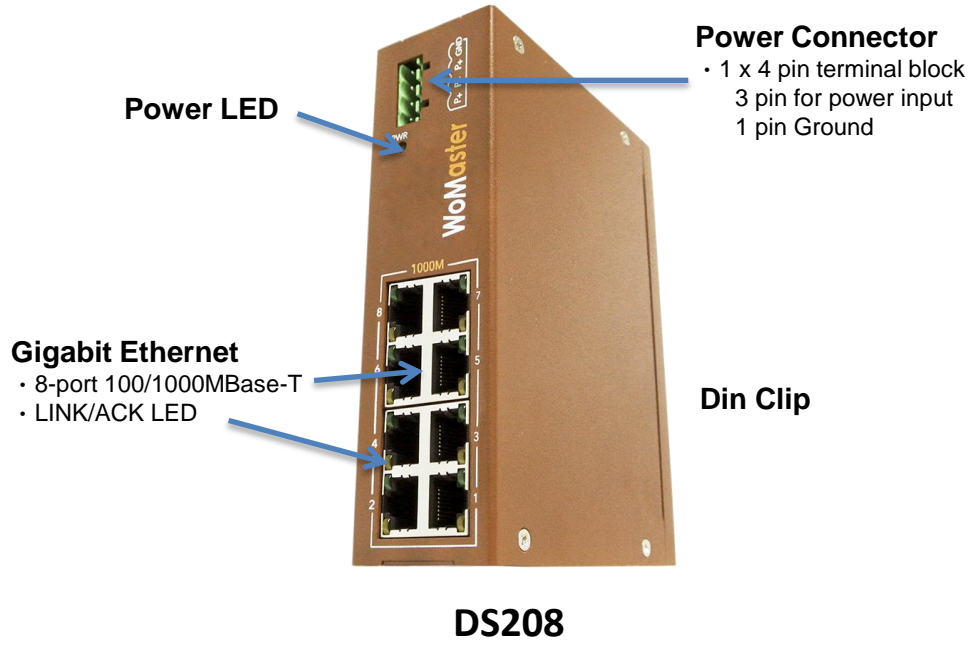
- Robust design protects from mechanical deformation
- IP40 ingress protection to withstand harsh environment (Optional IP41 protection)
- Wide operating temperature range **-40 ~ 70°C**
- CE marking
- IEC61000-6-2/IEC61000-6-4 heavy industrial EMC

#### QoS Service for Time-Sensitive Applications

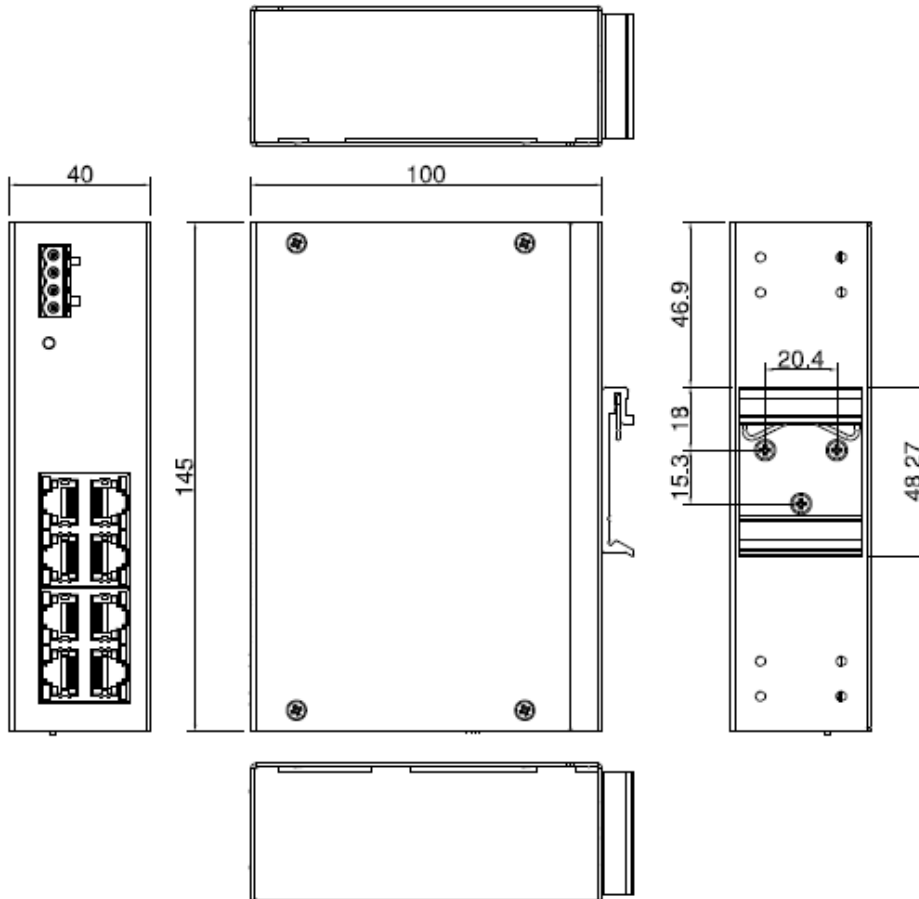
- IEEE 802.1Q VLAN priority tagging



## Interfaces



## Dimensions



(mm)

Technology	
<b>Standard</b>	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3az Energy Efficient Ethernet
Performance	
<b>Switch Technology</b>	Store and Forward Technology with Non-Blocking Switch Fabric
<b>Number of MAC Address</b>	4K
<b>Packet Buffer Memory</b>	1.5M bits
<b>Broadcast Storm Protection</b>	100,000 pps (packet per second)
<b>QoS</b>	VLAN Priority Tagging: 0/1: 2/3: 4/5: 6/7 = 1:2:4:8
<b>Jumbo Frame</b>	9216 Bytes
<b>Transfer performance</b>	10Base-T: 14,880pps, 100Base-TX: 148,800pps, 1000Base-TX: 1,488,100pps
Interface	
<b>Ethernet Port</b>	8 x 10/100/1000Base-TX RJ45, Auto Negotiation
<b>System LED</b>	1 x Power: Green On
<b>Ethernet Port LED</b>	Link (Green On), Activity (Green Blinking)
<b>Power input</b>	4-Pin Removable Terminal Connector 3 Pin for Power Input (V+, V-, V+) 1 Pin for Ground
Power Requirement	
<b>Input Voltage</b>	12/24/48 VDC (9.6~60VDC)
<b>Reverse Polarity Protect</b>	Yes
<b>Input Current</b>	0.11A@24V
<b>Power Consumption</b>	Max. 2.64W@24VDC, full traffic, suggest to reserve 15% tolerance
Mechanical	
<b>Installation</b>	DIN Rail
<b>Enclosure Material</b>	Steel Metal
<b>Dimension</b>	100 (D) x 145 (H) x 40mm (W) / without DIN Rail Clip
<b>Ingress Protection</b>	IP40 (IP41 By Request)
<b>Weight</b>	~540g without package
Environmental	
<b>Operating Temperature &amp; Humidity</b>	-40°C~70°C , 0%~95% Non-Condensing
<b>Storage Temperature</b>	-40°C~80°C
<b>MTBF</b>	>200,000 hours
<b>Warranty</b>	5 years
Standard	
<b>EMC</b>	EN61000-6-2/EN61000-6-4
<b>EMI</b>	CISPR 22, FCC part 15B Class A
<b>EMS</b>	EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5, EN61000-4-6 CS, EN61000-4-8 Magnetic Field



## Ordering Information

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Model Name	Description
<b>DS208</b>	Industrial 8G Unmanaged Ethernet Switch
	<b>Package List</b>
	1 x Product Unit
	1 x 4-pin Removable Terminal Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide



## Optional Accessory

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Item	
<b>MK-D1-2</b>	Wall-mounting kit with 2 plates and 8 screws