

Slim size Full-Giga Switch for Automation

DS205

Industrial 5 Port Giga Ethernet Switch

DS205 is the 5-port Full-Giga Ethernet switch, the Ethernet ports support 10M/100M/1000M Auto-Negotiation, Energy Efficient Ethernet, QoS traffic prioritizing and 9K jumbo frame forwarding. DS205 is also designed to accept wide power input range from 9.6 to 60VDC and 18-30VAC input. The rugged IP40 design can stand for harsh environment and wide temperature (from -40 to 70°C) use. It is also complying with heavy industrial environment EMC level and compact size can fit in for space limited cabinets.



Features & Benefits

Full Gigabit Switching

- 5-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

- Ultra low power design, 2.6W when full loading
- 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

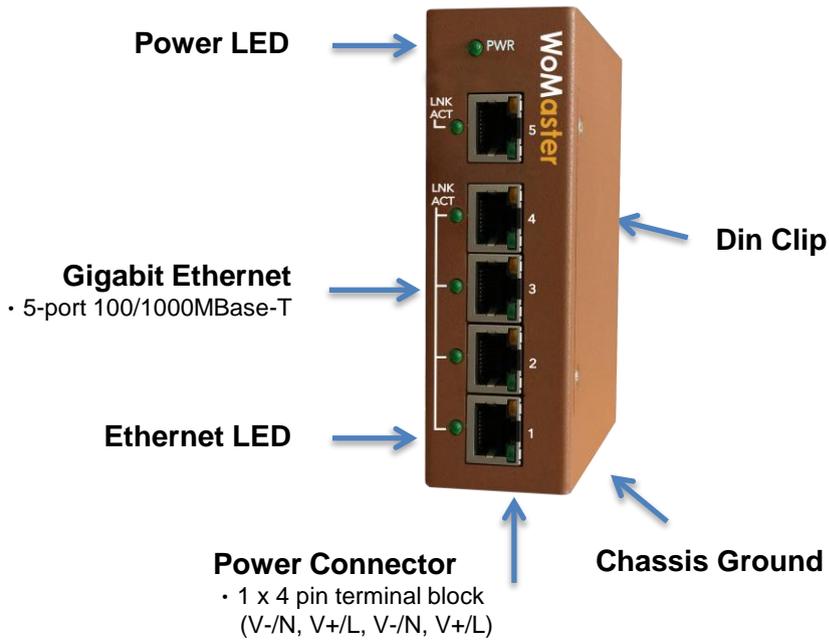
QoS Service for Time-Sensitive Applications

- Supports QoS for heavy traffic priority

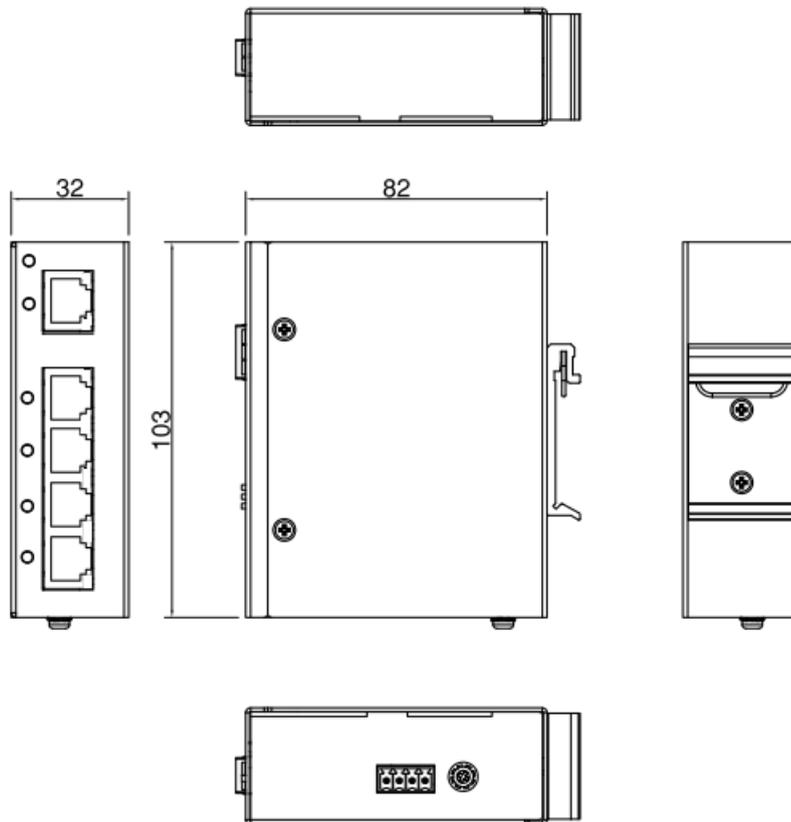


Interfaces

DS205



Dimensions



(mm)

Technology	
Standard	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	
Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	4K
Packet Buffer Memory	1.5M bits
Broadcast Storm Protection	100,000 pps (packet per second)*
QoS	QoS for heavy traffic priority (port=ratio): Port 1:2:3:4:5 = 1:2:2:4:4
Jumbo Frame	9216 Bytes
Transfer performance	10Base-T: 14,880pps, 100Base-TX: 148,800pps, 1000Base-TX: 1,488,100pps
Interface	
Ethernet Port	5 x 10/100/1000Base-TX RJ45, Auto Negotiation
System LED	1 x Power: Green On
Ethernet Port LED	Link (Green On), Activity (Green Blinking)
Power input	4-Pin Removable Terminal Connector (V-/N, V+/L, V-/N, V+/L)
Power Requirement	
Input Voltage	24VDC (9.6 - 60VDC/18-30VAC), redundant
Reverse Polarity Protect	Yes
Input Current	0.11A @ 24V
Power Consumption	Max. 2.64W@24VDC, full traffic, suggest to reserve 15% tolerance
Mechanical	
Installation	DIN Rail
Enclosure Material	Steel Metal
Dimension	82 (D) x 103 (H) x 32mm (W) / without DIN Rail Clip
Ingress Protection	IP40
Weight	302g without package 403 with package
Environmental	
Operating Temperature & Humidity	-40°C~70°C , 0%~95% Non-Condensing
Storage Temperature	-40°C~80°C
MTBF	>200,000 hours
Warranty	5 years
Standard	
CE	EN61000-6-2/EN61000-6-4 compliance EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5, EN61000-4-6 CS, EN61000-4-8 Magnetic Field
FCC	CISPR 22, FCC part 15B Class A

* future release



Ordering Information

Model Name	Description
DS205	Industrial 5 Port Unmanaged Gigabit Ethernet Switch, 24VDC/AC
	Package List
	1 x Product Unit
	1 x 4-pin Removable Terminal Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide



Optional Accessory

Item	
MK-D1-2	Wall-mounting kit with 2 plates and 8 screws
MDR-40-24	INPUT: 85~264VAC / 120-370VDC, OUTPUT: 24VDC/1.7A, -20~70°C