

# Rugged Ethernet Switch for Building Automation and Industry

## DS210v2

### Industrial 8FE+2G Unmanaged Ethernet Switch

The DS210 is an unmanaged Ethernet switch designed for basic industrial Ethernet connectivity. It has 10 ports, including 8 Fast Ethernet ports and 2 Gigabit Ethernet ports with either RJ45 or SFP interfaces. Additionally, the DS210 has QoS capabilities to prioritize traffic such as video and VoIP on the 2 Gigabit Ethernet or Fiber SFP uplink ports.

The DS210 can be powered by either 12 to 30V DC or AC inputs, making it suitable for building automation applications. It has been certified to meet EN61000-2 and EN61000-4 EMC standards and can operate in a wide temperature range from -40 to 70 Celsius, making it reliable for use in various industrial environments.



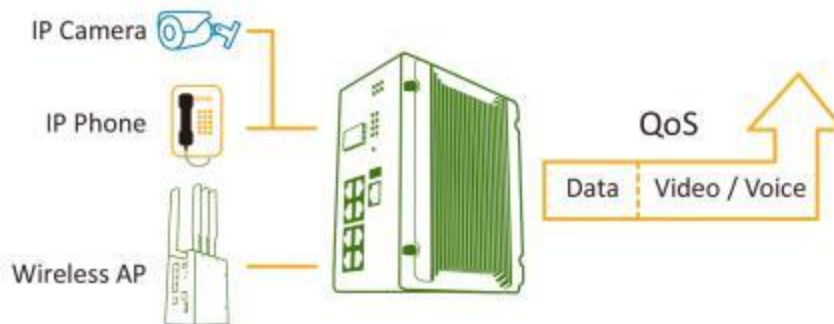
### Features & Benefits

#### High Throughput Ethernet Switching

- 10-port Ethernet, including 8-port Fast Ethernet and 2-port **Gigabit** Ethernet
- 2-port **Gigabit** Ethernet/Fiber uplink features QoS for video and VoIP data stream
- Fiber ports support auto detect 100M/1000M speed
- 8K MAC address table
- Stores and Forwards with non-blocking switch fabric

#### Rugged Mechanical Design

- Robust design protects from mechanical deformation
- Ribbed side panels for effective heat dissipation
- Wide operating temperature range **-40 ~ 70°C**
- Selectable gigabit uplink: RJ45 or SFP by model for high flexibility of cable types and distances
- EN IEC 61000-6-2 Immunity standard for Industrial Environment
- EN IEC 61000-6-4 Emission standard for Industrial Environment





## Interfaces

### System LED

P1/P2 power LED

### Dual Gigabit Uplink

-DS210v2: 100/1000Base-T  
-DS210Fv2: 100Base-FX/  
1000Base-X SFP

### 8-port

10/100Base-TX Ethernet

Chassis Ground



Din Clip

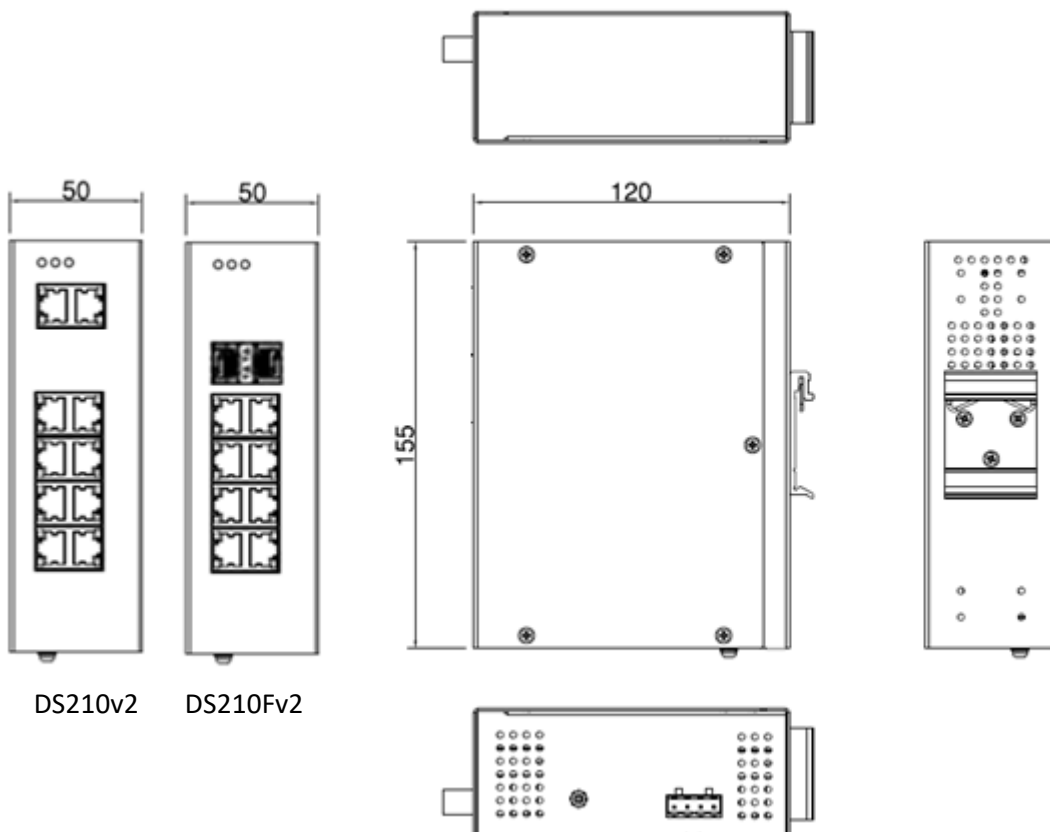
### Integrated Power Connector

- 1 x 4 pin terminal block
- 4 pin for power input
- Easy installation



## Dimensions

(mm)



DS210v2

DS210Fv2

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 802.3x Flow Control and back-pressure
	IEEE 802.1p Class of Service (CoS)
Performance	
<b>Switch Technology</b>	Store and Forward Technology with Non-Blocking Switch Fabric
<b>Number of MAC Address</b>	8K
<b>Packet Buffer Memory</b>	1M bits
<b>Transfer performance</b>	10Base-T: 14,880pps, 100Base-TX: 148,800pps, 1000Base-TX: 1,488,100pps
Interface	
<b>Ethernet Port</b>	8 x 10/100Base-TX RJ45, Half/Full Duplex, Auto Negotiation 2 x 100/1000Base-T RJ45, Half/Full Duplex, Auto Negotiation (DS210v2) Fiber: 2 x 100/1000MBase SFP, 100/1000M Speed Auto Detect, 100M SFP must be installed before power on (DS210Fv2)
<b>System LED</b>	1 x Power: Green On
<b>Ethernet Port LED</b>	Link (Green On), Activity (Green Blinking), Full duplex (Amber on), Collision (Amber Blinking)
<b>Gigabit Ethernet Port LED</b>	Link (Green On), Activity (Green Blinking), Speed (Amber Blinking, 10M:1, 100M:2 1000M:3 times)
<b>SFP LED</b>	Port: Link (Green On), Activity (Green Blinking)
<b>Power Input</b>	4-Pin Removable Terminal Connector 4 Pin for Power Input
Power Requirement	
<b>Input Voltage</b>	24VDC (10-30VDC/AC)
<b>Reverse Polarity Protect</b>	Yes
<b>Input Current</b>	0.2A @ 24V
<b>Power Consumption</b>	Max. 4.8W@24VDC full traffic
Mechanical	
<b>Installation</b>	DIN Rail
<b>Enclosure Material</b>	Steel Metal
<b>Dimension</b>	50(W) x 155(H) x 120(D) mm / without DIN Rail Clip
<b>Ingress Protection</b>	IP31
<b>Weight</b>	900g (device) / 1.3KG (full 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	EN IEC 61000-6-2 Immunity standard for Industrial Environment EN IEC 61000-6-4 Emission standard for Industrial Environment, includes EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8
FCC	FCC part 15B Class A



## Ordering Information

Model Name	Description
DS210v2	Industrial 8FE+2G Unmanaged Ethernet Switch
DS210Fv2	Industrial 8FE+2G Unmanaged Ethernet Switch, 2 100/1000M SFP
	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
PSD20-24	20W/24VDC DIN-rail power supply
PSD40-24	40W/24VDC DIN-rail power supply