

### Datasheet | IES7211-4GE2GF-DC Gigabit Industrial Switch with Two 1Gb SFP Uplink





Outstanding Network Solution for Hardened Environment Choose only the best for your business!

As a leading provider of network equipment for industrial communication, Benchu group understands the importance of providing stability and safety that can adapt to your business' needs, whether in the Safe City, traffic,mining,industrial automatic,power or energy. The IES7211-4GE2GF-DC with IP40 protection class and meet EMC industrial level 4 requirements. The product supports wide power input voltage range of 12-54VDC redundant power with reverse polarity protection and wide operating temperature range of -40 to the +85°C. The switches can be easily installed on a DIN rail as well as in distribution boxes. In addition to its compact size for space-saving installation, each product has passed a 100% burn-in test to ensure its quality high-reliability transmission. The IES7211-4GE2GF-DC is equipped with 4-10/100/1000BASE-T Gigabit Ethernet ports and 2-1.25GBASE-X SFP interfaces with redundant power input.It offers a DIN-Rail mountable, safe and reliable network solution for outdoor industrial environments deploying

ethernet networks.

Support 2 Ports 1.25G SFP Uplink, provides efficient transmission and powerful processing capacity. The administrator can flexibly choose the suitable SFP transceiver according to the transmission distance or the Fiber type required to extend the network efficiently.

# Highlights

Benchu group IES7211-4GE2GF-DC industrial ethernet switch, featuring 4-10/100/1000BASE-T ports and 2-1.25GBASE-X fiber ports, its in a IP40 rugged metal case, can be installed in any difficult environment. Support 8kV lightning protection, ensures high network availability by preventing downtime caused by power surges. support redundant power input ,ensures continuous operation even if one power source fails, the risk of network outages due to power supply failure is significantly reduced.DIN-Rail mounting allows for compact and organized installation of industrial ethernet switch, maximizing the use of available space. Wide temperature range, low-power consumption and fanless design, It is able to operate reliably, stably and quietly in the temperature range from -40 to 85 degrees C.



### Key features include:

- Circuit protection prevents power interference between ports
- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- Integrates address look-up engine, supporting 4K absolute MAC addresses
- Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

### Build a future-proof network with BENCHU:

• Solid performance with non-blocking architecture, 4K MAC addresses, 12Gbps Backplane bandwidth, 8.93Mpps switch throughput, 9216 bytes Jumbo Frame

• 2 Dedicated SFPs, Extends network distance up to 2KM/20KM/40KM/60KM/80KM/120KM with optical fiber.

#### **Fast Access**

• The remote units provide the full line-speed forwarding capability. All ports support non-blocking data packet forwarding, providing users with high-speed access experience and meeting the requirements of high-bandwidth services such as HD video conferencing, online video, and large file download.

#### **BENCHU** Quality and Reliability

- Low power consumption, fanless.
- High strength aluminum alloy shell
- IP40 Industrial design
- Contact Discharge 8KV DC; Air Discharge 15KV DC
- -40 to 85 degrees operating temperature
- Dual power input
- Din Rail mounting installation
- CE, FCC, RoHS,CB.

#### Easy operation and maintenance

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X.
- Flow control for full duplex operation and back pressure for half duplex operation
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)
- Din Rail mount installation and dual power input
- Plug and play, No configuration required
- The user-friendly panel can show the device status through the LED indicator of PWR, Link.



### Hardware at a Glance

FRONT				REAR	SIDE
Model Name	Form-Factor	10/100/1000Base-T RJ45 ports	1GBASE-X Fiber SFP Ports	Power Supply	Fans
IES7211-4GE2GF-DC	Din Rail mounting	4	2	Dual power input DC12~54V	Fanless

# Performance at a Glance

Model Name	Chip	Packet buffer	Fabric	Switch Throughput	MAC Address Table	Jumbo Frame	Latency (Max Connection Speed)
IES7211-4GE2GF-DC	Realtek	1.2MB	12Gbps	8.93Mpps line-rate	4K MAC	9216 bytes	1G Copper: <3.35μs 1G Fiber: <3.1μs

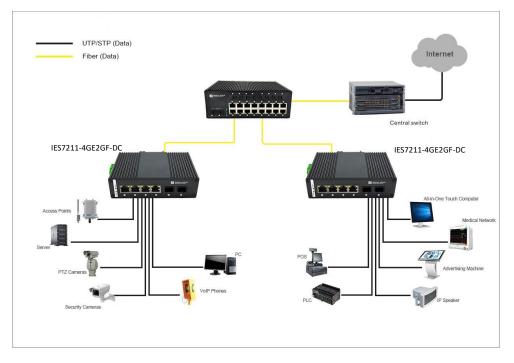
## Features and Benefits

Hardware Features			
1000BASE-T Copper Ethernet connections	Support Surveillance, Wi-Fi AP, VoIP, PLC, Access control and Speaker,		
	deployments, scal-able for future growth.		
1.25GBASE-X SFP Combo ports	Two 1.25Gb SFP ports for aggregation to the network core. Support for		
	Fiber and Copper modules.		
	By having a secondary power supply, the switch can seamlessly switch		
Redundant Power Inpout	to the backup power, maintaining network connectivity without		
	interruption.		
	Enhanced protection minimizes the risk of costly repairs and		
8kV Lightning Protection	replacements, maintaining network stability and reliability in		
	environments prone to lightning activity.		
	Remains reliable in both extremely cold and hot environments. Reliable		
Wide Operating Temperature Range of -40 to 85 $^\circ\!\!\!\mathrm{C}$	performance in extreme conditions reduces downtime and		
	maintenance needs, ensuring continuous operation.		
	Features an IP40-rated industrial design, which provides a high level of		
IP40 Industrial Design	protection against dust and debris, ensuring reliable operation in		
	demanding environments.		



### **Target Application**

### Network Convergence



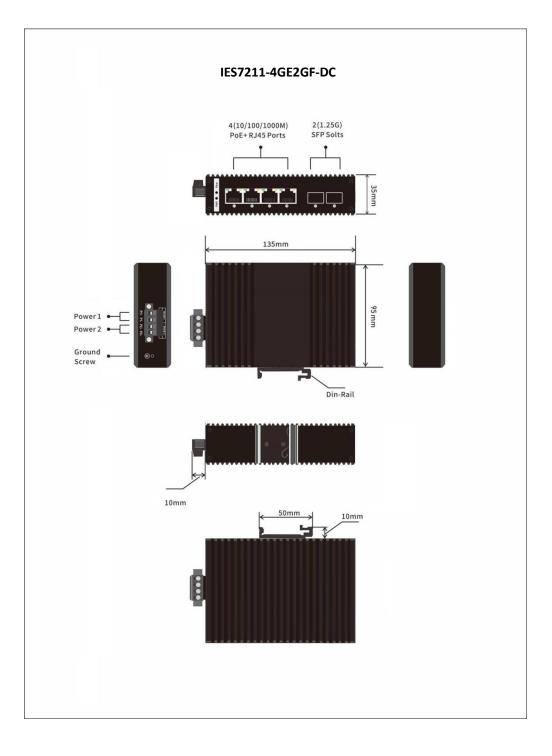
Across sectors like industrial parks, power and utilities, industrial automation, and energy, there is a rapid rise in the use of IoT devices such as VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, and secure access door locks. This growing deployment of devices requires reliable and stable industrial network switches to maintain consistent network performance. Additionally, the challenging conditions of outdoor and harsh environments call for industrial-grade switches built with durability and resilience to endure extreme conditions, including temperature changes, dust, and moisture exposure. These industrial ethernet switches are engineered to ensure dependable performance, enabling uninterrupted operations. As industrial networks become increasingly complex, selecting high-quality industrial-grade switches has become critical to supporting the expanding IoT infrastructure and addressing the needs of modern industrial applications.

The 6-port industrial ethernet switch support dense deployments of these modern high-uniformity network devices. They offer enhanced performance and a focus on usability within Industrial environments:

- Provide 4-10/100/1000M Ethernet network ports
- 2 dedicated 1.25Gb SFP fiber ports for aggregation to the network core
- Dual power input --- the risk of network outages due to power supply failure is significantly reduced.
- Wide Operating Temperature Range of -40 to 85  $^\circ\!\mathrm{C}$
- Contact Discharge 8KV DC; Air Discharge 15KV DC
- High strength aluminum alloy shell, IP40 Industrial design
- Excellent features such as fast response, resisting vibration, enduring dust, adapting for the hard environment, etc.
- Plug and play, No configuration required --- simplifies the installation process
- Limited Lifetime\* Warranty, Tech support



# Structure Diagrams





# Datasheet | IES7211-4GE2GF-DC Gigabit Industrial Switch with Two 1Gb SFP Uplink

Technical Specifications	IES7211-4GE2GF-DC	
10M/100M/1G RJ-45 copper ports	4	
1G SFP (fiber) ports	2	
Performance Specification		
Chip	Realtek	
Packet buffer memory (Dynamically shared		
across only used ports)	1.2 MB	
Forwarding modes	Store-and-forward	
Bandwidth	12 Gbps	
Packet forwarding rate (64 byte packet size)	8.93Mpps	
(Mpps)	ο.σοινιμμε	
MAC address database size (48-bit MAC	4К	
ad-dresses)		
Jumbo frame support (bytes)	Up to 9K packet size	
Mean Time Between Failures (MTBF) @ 25°C	166,132 hours	
100M Copper Latency (64-byte; 1518-byte;	8.314µs; 8.412µs; 8.551µs	
9216-byte frames)		
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.514µs; 3.545µs; 3.628µs	
1G Fiber Latency (64-byte; 1518-byte;		
9216-byte frames)	2.980µs; 3.101µs; 3.179µs	
IEEE Network Protocols	IES7211-4GE2GF-DC	
• IEEE 802.3i 10BASE-T	• IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	
• IEEE 802.3u 100BASE-T	• IEEE 802.3az Energy Efficient Ethernet (EEE)	
• IEEE 802.3ab 1000BASE-T	IEEE 802.3x Full-Duplex Flow Control	
Monitoring		
LEDs	Yes	
Per port	Speed, Link, Activity	
Per device	Power	
Physical Specifications		
Dimensions	135 x 95 x 35 mm (5.31 x 3.74 x 1.38 in)	
Weight (includes packaging accessories)	0.35 kg (0.77 lb)	
Power Inpout (Dual power input)	DC 12~54V	
Max power (worst case, all ports used,	0.17	
line-rate traffic) (Watts)	8W	
Idle power consumption (all ports link-down	6W	
standby) (Watts)		
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)	
Fan	Fanless	



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Operating-40° to 85°C (-40° to 185°F)Humidity95% maximum relative humidity (RH), non-condensingAltitude10,000 ft (3,000 m) maximumAltitude10,000 ft (3,000 m) maximumStorage-40° to 85°C (-40° to 185°F)Humidity (relative)95% maximum relative humidity, non-condensingAltitude10,000 ft (3,000 m) maximumHumidity (relative)95% maximum relative humidity, non-condensingAltitude10,000 ft (3,000 m) maximumExecutive Standard & Protection1000/m (80° 1000MHz)ECC Part 15/CISPR22 (ENS5022)Class BCC Part 15/CISPR22 (ENS5022)Class BEC61000-6-2Common Industrial StandardEC61000-6-2Common Industrial StandardEC61000-6-2Common Industrial StandardEC61000-6-2COM 2.5kV, DM 1kVEC61000-6-10 (Damped oscillation)30A/m, 1MHzEC61000-6-2 (ESPS)±8kV contact discharge, ±15kV air dischargeEC61000-6-2 (ESP)±8kV contact discharge, ±15kV air dischargeEC61000-6-4 (Radio frequency magnetic)100/m, 1000/m, 15-3sEC61000-6-4 (FR)CM±4kV/ DM±2kV, Data cable: ±4kV	Environmental Specifications	IES7211-4GE2GF-DC
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IEC61000-4-8 (Power frequency magnetic 100A/m, 1000A/m, 1s-3s field)	IEC61000-4-2 (ESD)	±8kV contact discharge, ±15kV air discharge
field) 100A/m, 1000A/m, 1s-3s	IEC61000-4-6 (Radio frequency transmission)	10V(150kHz~80MHz)
IEC61000-4-5 (Surge): Power cable CM±4kV/ DM±2kV, Data cable: ±4kV		100A/m, 1000A/m, 1s-3s
	IEC61000-4-5 (Surge): Power cable	CM±4kV/ DM±2kV, Data cable: ±4kV
Mechanical Properties	Mechanical Properties	
IEC60068-2-6 Anti Vibration	IEC60068-2-6	Anti Vibration
IEC60068-2-32 Free Fall	IEC60068-2-32	Free Fall
IEC60068-2-27 Anti Shock	IEC60068-2-27	Anti Shock



Safety

Support

**Electromagnetic Emissions and Immunity** 

CE mark, commercial FCC Part 15 Class A, VCCI Class A Class A EN 55022 (CISPR 22) Class A Class A C-Tick EN 55024 Certifications CCC 47 CFR FCC Part 15, SubpartB, Class A ICES-003: 2016 Issue 6, Class A ANSI C63.4:2014 IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 AN/NZS CISPR 22:2009+A1:2010 CLASS A CB mark, commercial CSA certified (CSA 22.2 #950) EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005 Certifications (ed.2)+A1:2009+A2:2013 AN/NZS 60950.1:2015 CCC (China Compulsory Certificate) Warranty and Support Hardware Limited Warranty Limited Lifetime\* Technical Support via Phone and Email\* Limited Lifetime\* Limited Lifetime\* 24x7 Online Chat Technical Limited Lifetime\* Package Contents Industrial ethernet switch Brackets and screws for DIN-Rail mounting which are already installed in the industrial switch All models Rubber protection caps, which are already installed in the SFP sockets

User's manual

Shenzhen Benchu Group Technology Limited

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IES7211-4GE2GF-DC

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