

**INDUSTRIAL ETHERNET SWITCH**
**Industrial Full Gigabit 8 + 2G SFP +2G Combo DC**

# JetNet 3212G-2C2F



- ▶ 8 Gigabit Base TX ports and 2 Gigabit RJ-45/ SFP combo ports and 2 Gigabit SFP ports
- ▶ IEEE 802.1p Class of Service (CoS) for packet forwarding precedence
- ▶ 10K bytes Jumbo Frame for large file transmission
- ▶ Broadcast storm packet filtering
- ▶ Dual DC Power input 10-60V
- ▶ -40-75°C operating temperature

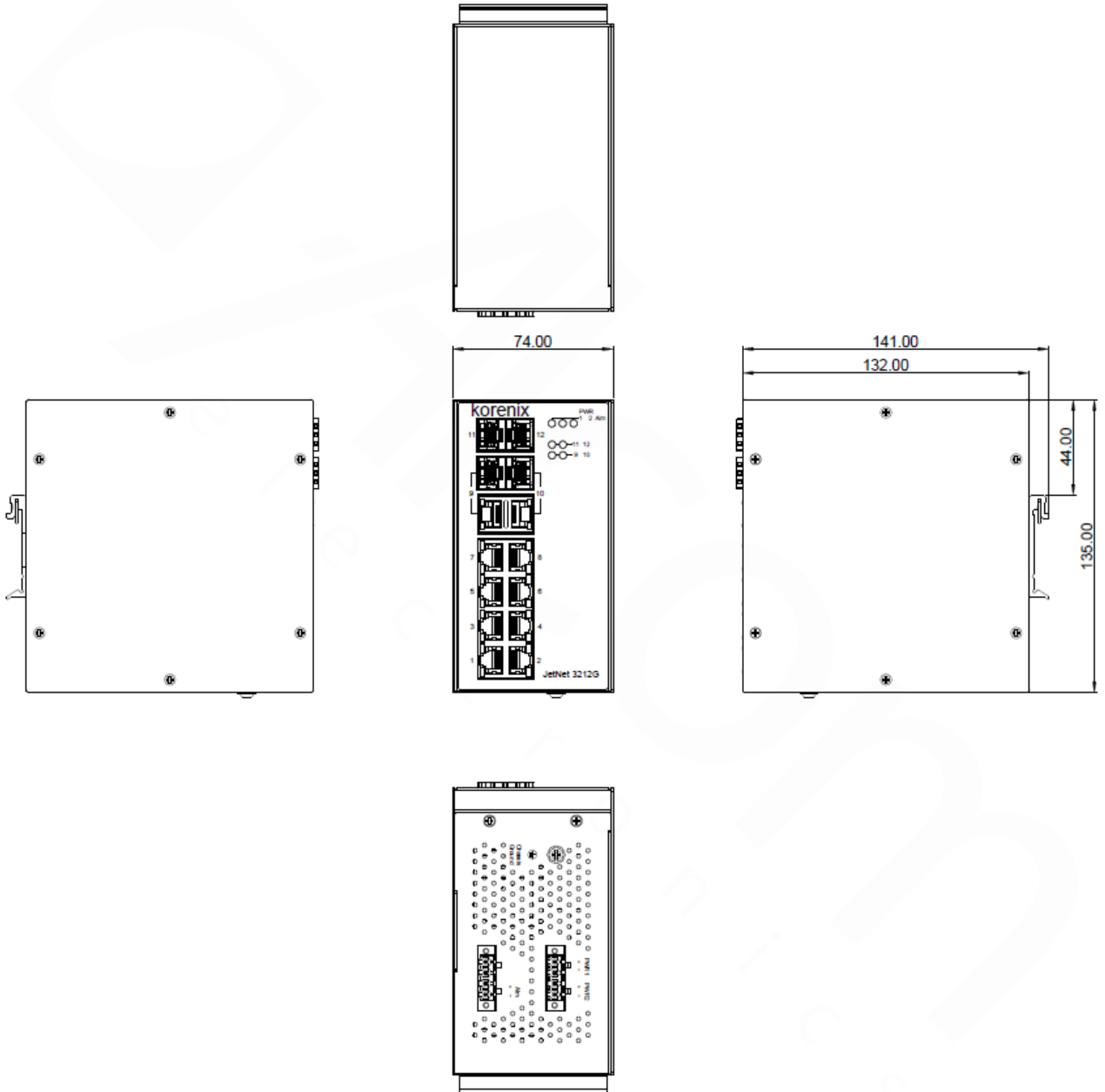


## Overview

The JetNet 3212G-2C2F is an industrial Switch with Din-rail design. It is equipped with 8-ports RJ-45 and 2 Gigabit SFP and 2 SFP/RJ-45 ports which provide flexible ports combination for different environment. The two Gigabit Ethernet combo ports provide high speed uplink to connect with higher level backbone switches. The JetNet 3212G-2C2F also supports Jumbo frame transmission which is crucial especially in the industrial applications requesting the transmission with large size files. The switch come with a built-in relay warning function that alerts network engineers when power failures.

The JetNet 3212G-2C2F can comply with CE and FCC standard and support wide operating temperature range of -40 to 75°C.

# Dimensions (Unit = mm)



# Specification

Technology																												
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-TX Gigabit Ethernet IEEE 802.3z Gigabit Ethernet Fiber IEEE 802.3Q Quality-of-Service IEEE 802.3p Class of Service IEEE 802.3x Flow control and back-pressure																											
Network Performance																												
Switch Technology	Store and Forward technology with 24Gbps switch																											
Transfer packet size	64Bytes -1518Bytes																											
MAC Address	8K MAC																											
Packet Buffer	4.1Mega bits																											
Broadcast storm control:	Default enabled Traffic threshold: 25M bps@1000Mbps; 10M bps@100Mbps; 1M bps@10 Mbps																											
Jumbo frame	Up to 10K Bytes																											
Transfer performance	14,880 pps @10Mbps 148,800 pps @100Mbps 1,488,100 pps @1000Mbps																											
Quality of Service	Compliance with IEEE802.1p class of service with Tag Based Priority rule Per switch port provides 4 priority queues with 8 (Higher): 4(High): 2(Low): 1(Lower) scheduling. The Tag Priority ID as following: Higher (6,7), High (4,5), Low (0,3), Lowest (1,2)																											
Class of Service	Default Enabled Supports IPv4/IPv6 packet priority, DSCP and ToS. DSCP/ToS tag is prior to CoS tag if both exist in a frame. Queue Mapping Table:																											
	<table border="1"> <thead> <tr> <th>DSCP Value</th> <th>Forwarding Queue</th> <th>ToS Value</th> </tr> </thead> <tbody> <tr> <td>0-7</td> <td>Low</td> <td>0</td> </tr> <tr> <td>8-15</td> <td>Lowest</td> <td>1</td> </tr> <tr> <td>16-23</td> <td>Lowest</td> <td>2</td> </tr> <tr> <td>24-31</td> <td>Low</td> <td>3</td> </tr> <tr> <td>32-39</td> <td>High</td> <td>4</td> </tr> <tr> <td>40-47</td> <td>High</td> <td>5</td> </tr> <tr> <td>48-55</td> <td>Highest</td> <td>6</td> </tr> <tr> <td>56-63</td> <td>Highest</td> <td>7</td> </tr> </tbody> </table>	DSCP Value	Forwarding Queue	ToS Value	0-7	Low	0	8-15	Lowest	1	16-23	Lowest	2	24-31	Low	3	32-39	High	4	40-47	High	5	48-55	Highest	6	56-63	Highest	7
DSCP Value	Forwarding Queue	ToS Value																										
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Interface																												
Enclosure Port	10/100/1000 Mbps Ethernet port: 10 x RJ-45 with auto MDI/MDI-X function 1000Mbps Fiber port : 4 x SFP Socket for SFP fiber transceiver Relay Output port: 4-Pin removable terminal block connector Power input port: 4-Pin removable terminal block connector																											
Ethernet Cable	100 Base-TX: 2-pair Cat.5E / Cat.6 FTP/STP cable, EIA/TIA 568B 100 Ohm, 100Meters 1000 Base-T: 4-pair Cat.5E/Cat.6 FTP/STP cable, EIA/TIA 568B 100 Ohm, 100Meters																											
Dry Relay	Dry Relay output: 0.5A / DC 24V																											
LED Indicators	1000MbpsRJ-45 port: Link (Green on)/Activity (Green Blinking),Speed 1000 (Amber on) 1000Mps SFP: Link/Activity (Green on, Green Blinking) Power: Power on (Green on) Alm: Alarm(Red on)																											

Power Requirement	
System Power	DC 10- 60 V
Power consumption	14W

Mechanical	
Installation	DIN-Rail mounting
Case	Metal
Ingress Protection	IP31
Dimension (mm)	74 (W) x 132(D) x 135 (H) - w/o DIN Rail Clip
Installation	DIN-rail mounting
Weight	1.5Kgs

Power Requirement	
System power	2x DC power input with polarity reverse protection
Input Range	DC 10-60V

Environmental	
Operating Temperature	-40 -75°C
Operating Humidity	0% ~ 95%, non-condensing
Storage Temperature	-40 ~ 85°C, 0% -90% Humidity

Regulatory Approvals	
Railway Standard	EN 50121-4, EN50121-3-2
EMC	EMI: EN50121-3-2, FCC Class A, IEC/EN61000-6-4 EMS:EN50121-3-2/EN50121-1, IEC/EN61000-6-2 IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-8, IEC/EN61000-4-9
Variation/Shock	IEC 61373
Free Fall	IEC 60068-2-32 with package Note-1
Warranty	5 Years

Note-1: Korenix's internal testing

## Ordering Information

Model Name	Description
JetNet 3212G-2C2F	Industrial 12-port Industrial Unmanaged switch, 8-port RJ-45, 2-port Gigabit RJ-45/SFP combo , 2-port Gigabit SFP typical Power Input DC 24V, -40-75°C  Includes: <ul style="list-style-type: none"> <li>• JetNet 3212G-2C2F</li> <li>• DIN Rail kit</li> <li>• Quick Installation Guide</li> </ul> Note: Please download User Manual from Korenix website