INDUSTRIAL ETHERNET SWITCH

Industrial Un-Managed Switch

JetNet 3508-LVDC/ 3508G-LVDC series

The JetNet 3508G-LVDC series is a new generation Switch with rugged M12 connectors. It is designed for IP Surveillance in harsh environments such as Train, MRT, Automation and LRV systems and is equipped with 7 Fast Ethernet ports and 1 Gigabit interface (JetNet 3508-LVDC) or 8 Full Gigabit interface (JetNet 3508G-LVDC). The switch system adapts to vehicle/railway electrical power system and supports several types of input voltage rating to correspond with different train electrical power systems. With multi-backup features, the JetNet 3508G series is capable to construct IP Surveillance network on the train, ensure passenger's safety and improve train network reliability.

Heavy Industry | +75 -40 Wide Temp | Gigabit | EN50121-4 | EN50155 | E13 E-Mark

Features

- 1 Gigabit M12 X-code, 7 100M M12 D-code, M12-A Power - JetNet 3508-LVDC
- 8 Gigabit M12 X-code, M12-A Power - JetNet 3508G-LVDC
- Rugged M12 Ethernet, power connectors for vibration and shock application
- IEEE 802.1p Class of Service (CoS) for packet forwarding precedence
- 10K bytes Jumbo Frame for large file transmission
- Broadcast storm packet filtering
- Railway Standards: EN50155, EN50121-3-2, EN50121-4
- Traffic Standard: E-mark E13
- -40~75°C operating temperature

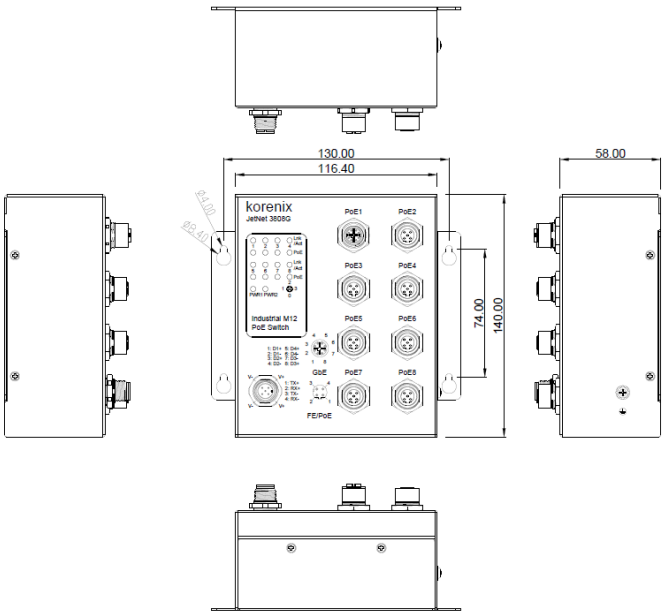
Specification

Technology	
Standard	IEEE 802.3u 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-TX Gigabit Ethernet IEEE 802.3x Flow control and back-pressure
Network Performance	
Switch Technology	Store and Forward technology with 16Gbps non-blocking (JetNet 3508G-LVDC) Store and Forward technology with 3.4Gbps non-blocking (JetNet 3508-LVDC)
System Throughput	23.8Mega packets per second, 64Bytes packet length
Transfer packet size	64Bytes ~1518Bytes
MAC Address	16K MAC address table
Packet Buffer	2 Mega bits shared packet buffer
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
Class of Service	Default Enabled Compliance with IEEE802.1p class of service with Tag Based Priority rule. Each switch port provides 4 priority queues as following - 8 (Higher) : 4(High) : 2(Low) :1(Lower) scheduling. The Tag Priority ID as following: Highest (6,7), High (4,5), Low (0,3), Lowest (1,2)
Interface	
Enclosure Port	• 1000 Base-T/Gigabit Ethernet (Port #1): 1 x M12-X Code 8-pin Female • 10/100 Base-T/TX Fast Ethernet (Port #2~#8): 7 x M12-D Code 4-pin Female • M12-X (Conductor #): (#1) 0P(D1+), (#2) 0N(D1-), (#3)1P(D2+), (#4)1N(D2-), (#5)3P(D4+) (#6)3N(D4-), (#7) 2N (D3-), (#8) 2P (D3+) • Power: M12 A-Code 5-pin Male
LED Indicators	Port 1~8: Link (Green on)/Activity (Green Blinking) Power: System Power Ready (Green on), Ignition function Activity (Green Blinking)
Power Requirement	
System Power	Input voltage: DC 12V or DC 24V, variation range DC 9- 36 V
Power consumption	6 Watts @ DC 24V without PD loading
Power Ignition Management	
	The count-down timer supports 4 scenarios which can be configured by Rotary-switch. The detail shows in user manual.
Mechanical	
Installation	Wall Mounting
Enclosure Material	Steel Metal with textured paint
Ingress Protection	IP-41 (IP54 available by request)
Dimension (mm)	116 mm (H) x 140 mm (W) x 58 mm (D) (without wall mount clip)
Weight (Kg)	1.105

Environmental	
Operating Environment	-40°C~75°C, 0~90%, Non-condensing
Storage Environment	-40°C~85°C, 0~90% Non-Condesing
Hi-Pot	AC 1KV for ports-power, power-case
Approvals	
Railway Standard	EN50155, EN 50121-4, EN50121-3-2
Traffic	E-mark E13 10R-05 14802
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
MTBF (hrs)	379,940
Warranty	5 Years

Note-1: Korenix's internal testing

Dimension (mm)



Ordering Information

Model Name	Description
JetNet 3508G-LVDC	Industrial Un-Managed Switch 8 Gigabit Port
	Includes: • JetNet 3508G-LVDC X 1 • Quick Installation Guide X 1 Note: Please download User Manual from Korenix website
JetNet 3508-LVDC	Industrial Un-Managed Switch 7 Fast Ethernet ports and 1 Gigabit Port
	Includes: • JetNet 3508-LVDC X 1 • Quick Installation Guide X 1 Note: Please download User Manual from Korenix website