

Industrial Un-Managed Switch

**JetNet 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



Wide Temp



ITxPT



EN50121-4



EN50155



E-Mark

**Features**

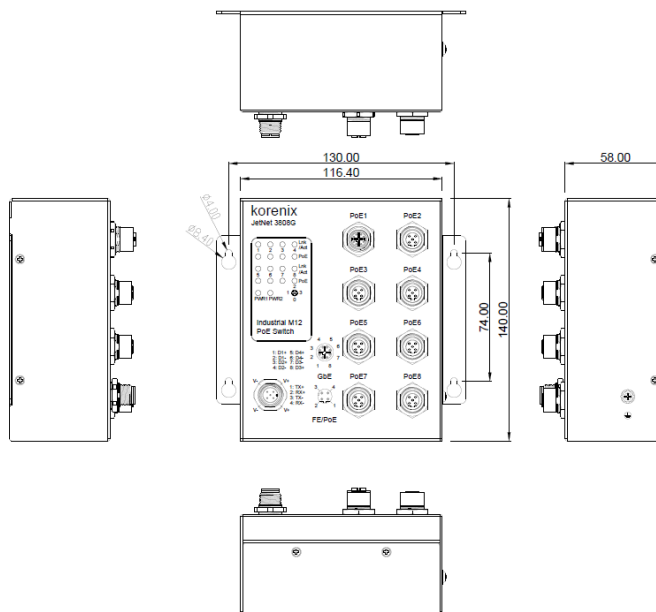
- ▶ 1 Gigabit M12 X-code, 7 100M M12 D-code, M12-A Power - JetNet 3508-LVDC
- ▶ 8 Gigabit M12 X-code, M12-A Power - JetNet 3508G-LVDC
- ▶ Rugged M12 Ethernet, power connectors for vibration and shock application
- ▶ IEEE 802.1p Class of Service (CoS) for packet forwarding precedence
- ▶ 10K bytes Jumbo 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<br>IEEE 802.3u 100Base-TX Fast Ethernet<br>IEEE 802.3ab 1000Base-TX Gigabit Ethernet<br>IEEE 802.3x Flow control and back-pressure   |
| Network Performance       |  |
| Switch Technology         | Store and Forward technology with 16Gbps non-blocking (JetNet 3508G-LVDC)<br>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<br>Traffic threshold:<br>25M bps@1000Mbps;<br>10M bps@100Mbps;<br>1M bps@10 Mbps   |
| Jumbo frame               | Up to 10K Bytes  |
| Transfer performance      | 14,880 pps @10Mbps<br>148,800 pps @100Mbps<br>1,488,100 pps @1000Mbps  |
| Class of Service          | Default Enabled<br>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            | <ul style="list-style-type: none"> <li>• 1000 Base-T/Gigabit Ethernet (Port #1): 8 x M12-X Code 8-pin Female (JetNet3508G-LVDC)</li> <li>• 1000 Base-T/Gigabit Ethernet (Port #1): 1 x M12-X Code 8-pin Female (JetNet3508-LVDC)</li> <li>• 10/100 Base-T/TX Fast Ethernet (Port #2-#8): 7 x M12-D Code 4-pin Female (JetNet3508-LVDC)</li> <li>• 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+)</li> <li>• Power: M12 A-Code 5-pin Male</li> </ul> |
| LED Indicators            | Port 1-8: Link (Green on)/Activity (Green Blinking)<br>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-Condensing   |
| 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<br>EMS:EN50121-3-2/EN50121-1, IEC/EN61000-6-2<br>IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5,<br>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<br><br>Includes:<br><ul style="list-style-type: none"> <li>• JetNet 3508G-LVDC X 1</li> <li>• Quick Installation Guide X 1</li> </ul> Note: Please download User Manual from Korenix website                          |
| JetNet 3508-LVDC             | Industrial Un-Managed Switch 7 Fast Ethernet ports and 1 Gigabit Port<br><br>Includes:<br><ul style="list-style-type: none"> <li>• JetNet 3508-LVDC X 1</li> <li>• Quick Installation Guide X 1</li> </ul> Note: Please download User Manual from Korenix website |
| ITxPT cable (F00A3808000001) | ITxPT cable MCP (Female)- A-code(Female)  |