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JetNet 3808G-M12/3908G-M12/3508G-LVDC Railway/Vehicle Ethernet Switch
Quick Installation Guide V1.0

Overview

The JetNet 3808G-M12/3908G-M12/3508G-LVDC series are Unmanaged Ethernet Switch with wall mount connection for Railway/Vehicle communication. It adopts M12 connector to make well connection with Enclosure interface for In-Train/Vehicle application, including Power and Ethernet interfaces. This Quick Installation Guide will guide you on system installation and wiring the interfaces.

Power Type	JetNet 3808G-M12	JetNet 3908G-M12	JetNet 3508G-LVDC
10/100 Base-TX PoE+ (M12 Female D Code)	7		
1000 Base TX PoE + (M12 Female X Code)	1	8	8 (non-PoE)
Power Input : 9-36VDC (M12 Male A Code)	1	1	1

Package Check List

▶ M12 Switch

▶ Quick Installation Guide

Specification of Power Cable - AWG/ mm²

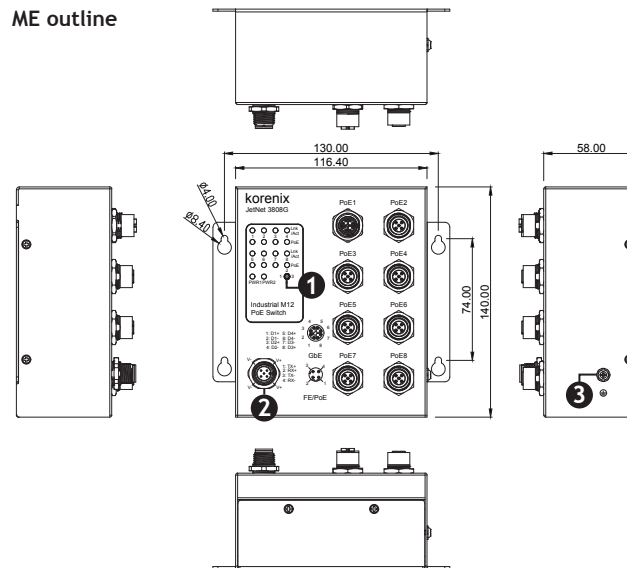| Model	AWG	mm²	Current (A)
LVDC (DC 24V version)	13	2.62	7.4 (Max)

JetNet 3808G-M12/3908G-M12/3508G-LVDC X-Code 8-PIN, Female

Cat-6, Cat-7 Shielding Twisted Cable, 24~26AWG

Pin Assignment drawing	Pin	Description	PoE
	1	Bidirectional (0)+	PoE V+ / P
	2	Bidirectional (0)-	PoE V+ / P
	3	Bidirectional (1)+	PoE V- / N
	4	Bidirectional (1)-	PoE V- / N
	5	Bidirectional (3)+	
	6	Bidirectional (3)-	
	7	Bidirectional (2)-	
	8	Bidirectional (2)+	

JetNet 3808G-M12 D-Code 4-PIN, Female

Cat-6, Cat-7 Shielding Twisted Cable, 24~26AWG

Pin Assignment drawing	Pin	Description	PoE
	1	TX+	PoE V+ / P
	2	RX+	PoE V- / N
	3	TX-	PoE V+ / P
	4	RX-	PoE V- / N

Powering System

The JetNet Railway M12 Switch is designed for Train/Vehicle on-board IP Surveillance application. The Switch's power input voltage is fully compliant with train's/Vehicle power system. The specification of power input voltage shows in table following.

Specification of System Power

Power Type	LVDC
Typical Input Voltage	DC 24V
Voltage Variation (V)	9~36V
Power Redundant	√
Reverse Protection	√

System Wiring

The railway Ethernet Switch adopts several type of M12 connectors for the power, Ethernet signal. Therefore, the connection is different from the traditional Ethernet connector. The figures as following describe the definition of each conductor.

Power Connector - M12 A-Code 5-PIN, Male

Pin Assignment drawing	Pin	Description
	1	Power-2, DC+
	2	Power-1, DC+
	3	Power-1, DC -
	4	Power-2, DC -
	5	Ignition

ME outline

130.00
116.40
58.00
74.00
140.00

❶ Rotary Switch

❷ Ignition (Pin 5)

❸ Earth Ground

Rotary Function

Power Input	Rotary Switch	Ignition Voltage	System	Note
<9V	0		Off	
<9V	1,2,3	> 7.6VDC	Off	
<9V	1,2,3	< 7.6VDC	Off	
9~36 VDC	0		On	Including Rotary floating
9~36 VDC	1,2,3	> 7.6VDC	On	
9~36 VDC	1,2,3	< 7.6VDC	Delay off into Standby mode	Rotary 1: 2 sec Rotary 2: 5 minutes Rotary 3: 15 minutes

LED per unit

▶ PWR 1 : Power ON/Off (Green ON/OFF)
Ignition Function (Green Blinking)

▶ PWR 2 : Standby ON/OFF (Green ON/OFF)

▶ PoE LED x 8: Detection (Amber Blinking)
Power ON/OFF (Amber ON/OFF)

▶ LNK/ACT : Link ON/OFF(Green ON/OFF)
ACT ON (Green Blinking)

Support

5 Years Warranty

Each of Korenix's product is designed, produced, and tested with high industrial standard. Korenix warrants that the product(s) shall be free from defects in materials and workmanship for a period of five (5) years from the date of delivery provided that the product was properly installed and used.

This warranty is voided if defects, malfunctions or failures of the warranted product are caused by damage resulting from force measure (such as floods, fire, etc.), other external forces such as power disturbances, over spec power input, or incorrect cabling; or the warranted product is misused, abused, or operated, altered and repaired in an unauthorized or improper way.

Attention! To avoid system damage caused by sparks, please DO NOT plug in power connector when power is on.

The product is in compliance with Directive 2002/95/EC and 2011/65/EU of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS Directives & RoHS 2.0)

Korenix Customer Service

KoreCARE is Korenix Technology's global service center, where our professional staffs are ready to solve your problems at any time.

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