DATASHEET - XNE-GWBR-2ETH-IP

ECO gateway for XI/ON I/O system, ethernet IP

Part no.	**XNE-GWBR-2ETH-IP**
	140047
EL Number (Norway)	**4520607**

General specifications

Product name	Eaton XNE Gateway
Part no.	XNE-GWBR-2ETH-IP
EAN	7640130095281
Product Length/Depth	129 millimetre
Product height	75 millimetre
Product width	33.5 millimetre
Product weight	0.136 kilogram
Certifications	IEC/EN 61000-6-4 IEC/EN 61131-2 CULus CE Rated data for terminations according to IEC/EN 60947-7-1 IEC/EN 61000-6-2
Product Tradename	XNE
Product Type	Gateway
Product Sub Type	None
Catalog Notes	2 x RJ45-socket supports up to 74 disc-type modules (XN, XNE)

Features & Functions

Features	Fieldbus connection over separate bus coupler possible
Fitted with:	Bus refreshing module Potential separation

General information

Accessories	1 x end plate XN-ABPL and 2 x end bracket XN-WEW-32/2-SW included with supplied equipment.
Admissible range	18 - 30 V DC, Networking
Configuration	Maximum station configuration: 74 cards (XN, XNE) of slice design or max. length of station: 1 m
Degree of protection	IP20
Mounting method	Rail mounting possible
Residual ripple	According to EN 61131-2
Type	XI/ON ECO gateways XNE-Gateway with integrated supply
Voltage type	DC

Ambient conditions, mechanical

Drop and topple	According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Shock resistance	Mechanical, According to IEC/EN 60068-2-27 Continuous according to IEC/EN 60068-2-29
Vibration resistance	According to IEC/EN 60068-2-6

Climatic environmental conditions

Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-25 °C
Ambient storage temperature - max	85 °C
Environmental conditions	Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation) Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)
Relative humidity	5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)

Electro magnetic compatibility

Air discharge	According to EN 61100-4-2
Burst impulse	According to IEC/EN 61000-4-4
Contact discharge	According to EN 61100-4-2

Electromagnetic fields	According to IEC EN 61100-4-2
Emitted interference	230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3) 30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3)
Radiated RFI	IEC/EN 61100-4-6
Surge rating	According to IEC/EN 61000-4-5 Level 4
Voltage dips	According to EN 61131-2 (Voltage fluctuations/voltage dips)

Terminal capacities

Terminal capacity	0.25 - 0.75 mm^2, with ferrules with plastic collar 0.25 - 1.5 mm^2, solid 0.25 - 1.5 mm^2, flexible without ferrule 0.25 - 1.5 mm^2, with ferrules without plastic collar
Gauge pin	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	8 mm

Electrical rating

Supply voltage	4.7 - 5.3 V DC
Supply voltage at AC, 50 Hz - min	0 V
Supply voltage at AC, 50 Hz - max	0 V
Supply voltage at DC - min	18 V
Supply voltage at DC - max	30 V

Communication

Addressing	Address set via decimal rotary coding switch, BootP, DHCP or I/Oassistant Address set via DIP switch, BootP, DHCP or PGM Address range: 1 - 254 decimal
Connection type	Push-In spring-cage terminals, Connection design in TOP direction Screw terminals, Field bus/Supply voltage) 2 x RJ45 (Ethernet Switch), Field bus
Data transfer rate	100 MBit/s, Networking Setting automatically 10/100 MBit/s 10 MBit/s, Networking
Field voltage	24 V DC (UL)
Interfaces	Mini-USB (Service interface) Ethernet (Ethernet-IP protocol), Field bus connection
Protocol	EtherNet/IP Ethernet Other bus systems TCP/IP

Safety

Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Through optocoupler: yes

Design verification

Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	8 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Meets the product standard's requirements.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)			
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss13-27-24-26-08 [BAA073018])			
Supply voltage AC 50 Hz		V	0 - 0
Supply voltage AC 60 Hz		V	0 - 0
Supply voltage DC		V	18 - 30
Voltage type (supply voltage)			DC
Number of HW-interfaces CAN			
Number of HW-interfaces industrial Ethernet			
Number of interfaces PROFINET			
Number of HW-interfaces RS-232			
Number of HW-interfaces RS-422			
Number of HW-interfaces RS-485			
Number of HW-interfaces serial TTY			
Number of HW-interfaces USB			
Number of HW-interfaces parallel			
Number of HW-interfaces wireless			
Number of HW-interfaces other			
Supporting protocol for EtherCAT			No
Supporting protocol for TCP/IP			Yes
Supporting protocol for PROFIBUS			No
Supporting protocol for CAN			No
Supporting protocol for INTERBUS			No
Supporting protocol for ASI			No
Supporting protocol for KNX			No
Supporting protocol for Modbus			No
Supporting protocol for Data-Highway			No
Supporting protocol for DeviceNet			No
Supporting protocol for SUCONET			No
Supporting protocol for LON			No
Supporting protocol for SERCOS			No
Supporting protocol for PROFINET IO			No
Supporting protocol for PROFINET CBA			No
Supporting protocol for Foundation Fieldbus			No
Supporting protocol for EtherNet/IP			Yes
Supporting protocol for AS-Interface Safety at Work			No
Supporting protocol for DeviceNet Safety			No
Supporting protocol for INTERBUS-Safety			No
Supporting protocol for PROFIsafe			No
Supporting protocol for SafetyBUS p			No
Supporting protocol for other bus systems			Yes
Radio standard Bluetooth			No
Radio standard WLAN 802.11			No
Radio standard GPRS			No
Radio standard eGPRS			No

Radio standard GSM			No
Radio standard LTE			No
Radio standard UMTS			No
IO link master			No
System accessory			Yes
Degree of protection (IP)			IP20
With potential separation			Yes
Fieldbus connection over separate bus coupler possible			Yes
Rail mounting possible			Yes
Wall mounting/direct mounting			No
Front built-in possible			No
Rack-assembly possible			No
Suitable for safety functions			No
SIL according to IEC 61508			None
Performance level according to EN ISO 13849-1			None
Appendant operation agent (Ex ia)			No
Appendant operation agent (Ex ib)			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Certified for UL hazardous location class I			No
Certified for UL hazardous location class II			No
Certified for UL hazardous location class III			No
Certified for UL hazardous location division 1			No
Certified for UL hazardous location division 2			No
Certified for UL hazardous location group A (acetylene)			No
Certified for UL hazardous location group B (hydrogen)			No
Certified for UL hazardous location group C (ethylene)			No
Certified for UL hazardous location group D (propane)			No
Certified for UL hazardous location group E (metal dusts)			No
Certified for UL hazardous location group F (carbonaceous dusts)			No
Certified for UL hazardous location group G (non-conductive dusts)			No
Width		mm	33.5
Height		mm	75
Depth		mm	129

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