DATASHEET - XNE-GWBR-2ETH-IP

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



Part no.
EL Number

XNE-GWBR-2ETH-IP 140047 4520607

(Norway)

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 station: 1 m
Degree of protection	IP20
Mounting method	Rail mounting possible
Residual ripple	According to EN 61131-2
Туре	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	
Radiated RFI	230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3) 30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3) 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 mm², with ferrules with plastic collar 0.25 - 1.5 mm², solid 0.25 - 1.5 mm², flexible without ferrule 0.25 - 1.5 mm², 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	٥V
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.

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Technical data ETIM 9.0				
Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery	- communication mo	odule (E	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

Radio standard Bluetooth

Radio standard GPRS

Radio standard eGPRS

Radio standard WLAN 802.11

Supporting protocol for SafetyBUS p

Supporting protocol for other bus systems

No

No

Yes

No

No

No

No

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Depth mm 129	Height	mm	75
	Depth	mm	129