

ECO gateway for XI/ON I/O system, SmartWire



**Part no.** XNE-1SWIRE  
**140043**  
**EL Number** 4520682  
**(Norway)**

<b>General specifications</b>	
Product name	Eaton XNE Communication module
Part no.	XNE-1SWIRE
EAN	7640130120549
Product Length/Depth	129.5 millimetre
Product height	74.5 millimetre
Product width	13 millimetre
Product weight	0.051 kilogram
Certifications	IEC/EN 61000-6-4 IEC/EN 6113-2 IEC/EN 61000-6-2 Rated data for terminations according to IEC/EN 60947-7-1 IEC/EN 61131-2 CE
Product Tradename	XNE
Product Type	Communication module
Product Sub Type	None
Catalog Notes	Up to 3 XNE-1SWIRE per XI/ON node
<b>Features &amp; Functions</b>	
Features	Fieldbus connection over separate bus coupler possible
Fitted with:	Potential separation
<b>General information</b>	
Current consumption	0 mA, from supply terminal 60 mA, from module bus, Analog input modules
Degree of protection	IP20
Insulation resistance	500 V, Control/main circuit
Mounting method	Rail mounting possible
Type	XI/ON technology module XN Slice module
Voltage type	DC
<b>Ambient conditions, mechanical</b>	
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
<b>Climatic environmental conditions</b>	
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 - H2S: 1 ppm (relative humidity < 75%, no condensation) Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation)
Relative humidity	5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)
<b>Electro magnetic compatibility</b>	
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	30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3) 230 - 1000 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)
<b>Terminal capacities</b>		
Terminal capacity		0.25 - 1.5 mm <sup>2</sup> , solid, H07V-U 0.25 - 1.5 mm <sup>2</sup> , with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.25 - 1.5 mm <sup>2</sup> , flexible without ferrule, H07V-K 0.25 - 0.75 mm <sup>2</sup> , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
Stripping length (main cable)		8 mm
<b>Electrical rating</b>		
Power loss		Normally 1.5 W
Rated control supply voltage		24 V DC (SmartWire)
Rated operational voltage		24 V DC (supply terminal)
Supply current - max		600 mA
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
<b>Communication</b>		
Connection		Connection of up to 16 motor starters (Eaton) Supply current of all nodes (short-circuit proof): ≤ 500, SWIRE connection, Power supply module SWIRE modules per line: ≤ 16; SWIRE connection, Power supply module Data per SWIRE module: max. 4I/4Q Supply of SWIRE nodes (short-circuit proof): 17 V DC; SWIRE connection, Power supply module SWIRE-line: 1; SWIRE connection, Power supply module XNE-1 SWIRE module per XI/ON station: ≤ 3, SWIRE connection, Power supply module
Connection type		Push-In spring-cage terminals, Connection design in TOP direction
Number of bytes		4 diagnostic bytes
<b>Safety</b>		
Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Through optocoupler: yes
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>		0 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )		0 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		1.5 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 8.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)		
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecI@ss10.0.1-27-24-26-08 [BAA073013])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type of supply voltage		DC
Supporting protocol for TCP/IP		No
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		No
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		No
Radio standard Bluetooth		No
Radio standard Wi-Fi 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
Width		mm	13
Height		mm	74.5
Depth		mm	129.5