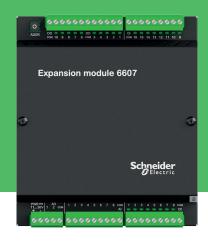




I/O expansion module for SCADAPack x70 Smart RTUs



Product at a glance

The 6607 I/O Expansion module increases the I/O capacity for SCADAPack™ x70 Smart RTUs (Remote Terminal Units) by providing additional digital, analog and counter points in a compact form-factor.

Expandable: Up to four 6607 modules may be connected to a SCADAPack x70 Smart RTU for enhanced I/O flexibility.

Configurable:

- Locally or remotely using the SCADAPack RemoteConnect configuration software on a desktop or laptop computer connected to the SCADAPack through the USB Device port or through any of the available serial or Ethernet ports.
- Remotely as part of an end-to-end SCADA system using EcoStruxure[™] Geo SCADA Expert software.

Available I/O:

- 16 digital inputs
- 8 counter inputs (shared with DIs)
- 10 digital outputs
- · 8 analog inputs
- 2 analog outputs

Conformal-coated circuit boards for enhanced reliability in adverse environments.

Wide operating temperature range: -40...70 °C (-40...158 °F).

Class I, Div. 2 hazardous area certifications included.

Green Premium™ ecolabel product – Sustainable performance, by design

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Specifications - cont'd

General

 -4070 °C (-40158 °F) operating temperature when the unit is mounted horizontally on a vertical surface -4065 °C (-40149 °F) operating temperature when the unit is mounted in any other position -4085 °C (-40185 °F) storage temperature 595% relative humidity, non-condensing Pollution Degree 2, Installation Category I, Indoor use
3,000 m (9,842 ft)
3.30.05 mm² (1230 AWG), solid or stranded
 142 mm (5.6 in) wide 166 mm (6.5 in) high 46 mm (1.8 in) deep
 Corrosion-resistant; zinc-plated steel base and stainless steel cover with black enamel paint G3 conformal-coated circuit boards
• IEC 61131-2 • ½ sine, 15 ms, 15 g
 IEC 61131-2 58.4 Hz: Amplitude-controlled, 7.0 mm (0.28 in) peak-to-peak 8.4150 Hz: Acceleration controlled, 1.0 g peak

Power Supply

Input Voltage	 Rated Voltage 1429 Vdc Turn-on 1011.5 Vdc Turn-off 910 Vdc
Power requirements from the SCADAPack	1.2 W

Certifications

Industrial standards	Requirements specific to the SCADAPack functional characteristics, immunity, robustness, and safety: • IEC/EN 61131-2 • CSA 22.2 No. 61010-1-12 and CSA 22.2 No. 61010-2-201 • UL 61010-1 and UL 61010-2-201
CE marking compliance	 For the latest information regarding product compliance with European Directives for CE marking, refer to the EU Declaration of Conformity issued for your product at see.com For the latest information regarding product environmental compliance visit the Schneider Electric Check a Product portal at https://checkaproduct.se.com/
Installation in classified Ex area	 North America: Hazardous locations Class I, Division 2, groups A, B, C, and D, T4 and Class I, Zone 2, T4, -40 °C ≤ Tamb ≤ 70 °C (-40 °F ≤ Tamb ≤ 158 °F) and Class I, Zone 2, IIC T4 according to CSA C22.2 No. 213-17, UL 12.12.01 ATEX, UKEX: Zone 2, II 3G, Ex ec nC IIC T4 Gc according to EN IEC 60079-0, EN IEC 60079-7 and EN IEC 60079-15 IECEx: Zone 2, Ex ec nC IIC T4 Gc according to IEC 60079-0, IEC 60079-7 and IEC 60079-15 For Eurasian Economic Union: EAC
Specific countries	 For Australia and New Zealand: ACMA requirements for RCM marking For United States: FCC Part 15 Subpart B Class A

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Specifications - cont'd

Communications

I/O bus	SCADAPack 470, 570, 574 and 575 Maximum number of 6607 input output modules in the system is 4
I/O bus	SCADAPack 474 Maximum number of 6607 input output modules in the system is 3

Digital Inputs

Quantity	16
Connectors	2 removable, 9-pin
Indicators	16 LEDs
Voltage	12 Vdc or 24 Vdc (Typical)
Over-voltage tolerance	 36 Vdc 150% sustained over-voltage without foreseeable damage
Input current	1.2 mA typical at 12 Vdc2.4 mA typical at 24 Vdc
Input logic-HI level	OFF to ON transition threshold is typically 6.5 Vdc
Timestamping	10 ms Sequence of Event (SOE)
Status	Chatter filter detection when digital state changes faster than 5 Hz
Isolation	 Isolation is in 2 groups of 8 Isolation from logic supply and chassis: 250 Vac/350 Vdc

Counter Inputs

Quantity	8
Electrical characteristics	Shared with digital input channels
Reporting	 32-bit counters Deviation Timestamped events Unsolicited reporting
DI1, DI2, DI3, and DI4-supported counting	 Range: 0 to 1.5 kHz Rising edge counting Falling edge counting (using digital input state inversion)
DI5, DI6, DI7, and DI8-supported counting	 Range: 0 to 500 Hz Rising edge counting Falling edge counting (using digital input state inversion)

I/O expansion module for SCADAPack x70 Smart RTUs

Specifications - cont'd

Digital Outputs

Quantity	10
Connector	Removable, 12-pin
Туре	Form A Contacts (normally open)5 contacts share one common
Indicators	Logic-powered LEDs
Inductive loads	 To suppress the noise in AC and DC circuits and help extend the life of the relay contacts, place a metal oxide varistor (for AC circuits) or a diode (for DC circuits) across the coil. See Digital Output Wiring Example for further information
Isolation	 Isolation is in 2 groups of 5 250 VAC / 350 VDC maximum to SCADAPack logic and chassis
Dry Contact Rela	y Version
Contact rating	2 A, 30 VDC10 A maximum per common

Analog Inputs

Quantity	8
Connector	Removable, 9-pin
Ranges	Software-configurable • 020 mA • 420 mA • 05 Vdc • 15 Vdc
Resolution (100 ms sampling)	 24-bit conversion 0.25 mV resolution on 5 Vdc range 1 µA resolution on 20 mA range
Accuracy	 ±0.1% of full scale at 25 °C (77 °F) ±0.2% over temperature range
Input resistance	 250 ohms in current configurations 1 Mohms in voltage configurations
Isolation	250 Vac / 350 Vdc maximum to SCADAPack logic and chassis
Cable length	Maximum: 30 m (98.4 ft)

Analog Outputs

Quantity	2
Connector	Removable, 5-pin
Range	020 mA sourcing420 mA sourcing
Reporting	Open Loop Detection (for 020 mA configuration, open loop detection operates above 0.1% of full span. i.e. above 0.02 mA)
Resolution	12-bit (5.9 uA)
Load range	12 Vdc: 0400 ohms24 Vdc: 01000 ohms30 Vdc: 2501300 ohms

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Specifications - cont'd

Analog Outputs (cont'd)

Accuracy	 ±0.15% of full scale at 25 °C (77 °F) ±0.35% of full scale over temperature range
Noise and ripple	0.04% maximum
Logic end-of-scan to signal update latency	With up to 10, 5000 series I/O modules Typical: 1827 ms
Response time (DAC to signal)	Less than 100 μs for 10% to 90% signal change
Isolation	Optional isolation from logic supply by using external power supply
Cable Length	Maximum: 30 m (98.4 ft)
Load range	 12 Vdc: 0400 ohms 24 Vdc: 01000 ohms 30 Vdc: 2501300 ohms

Model Code

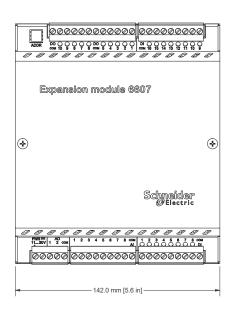
Code	Select: Model
TBUX297592S	Combination I/O module, 16, DI, 8 CI, 10 DO, 8 AI, 2 AO

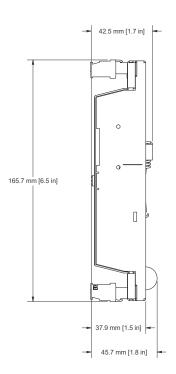
Accessories

Part Number	Description
TBUM297310	SCADAPack 47x Connector Kit - five complete sets of spare connectors for SCADAPack 470 and 474 RTUs, and 6607 I/O expansion module

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Dimensions - 6607





Note: Accessories sold separately.

Disclaimer:

The information provided in this document contains general descriptions and/or technical characteristics of the performance of the described products or services. For detailed specification, performance and instruction of use, refer to corresponding Catalogs and user guides if available.

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Part Number: TBULM08019-01 v19



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