

SCADAPack

I/O Expansion & Communication Modules





Welcome to the SCADAPack family of I/O Expansion and Communication modules, providing flexible I/O and telemetry options.

With the addition of I/O Expansion modules, any⁺ SCADAPack smart RTU is easily expandable from its base I/O configuration to more than 700 process I/O points. Available for a wide range of process I/O requirements, from digital and analog I/O to I/O simulators and a UPS module, a maximum of twenty I/O modules may be connected for an expansion of up to 512 digital outputs, 512 digital inputs, 128 analog inputs, 64 counters and 64 analog outputs, on some models.

Regardless of what communication format is required, there is a Communication module to fit the need. From the traditional leased line, phone line and radio-transceiver, to the latest Ethernet, SDI-12 and Bluetooth technologies, Communication modules make data transfer easy and cost-effective.

+ Please refer to the I/O Expansion Modules Compatibility Chart found on the last page of this document (some I/O Expansion modules are specific to SCADAPack 300 RTUs, others are specific to SCADAPack E RTUs. As for SP100, it does not support any such module)

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Analog Input Modules

Module 5502 – Differential Analog Input Module

Features:

- Differential Isolated Inputs for high versatility
- Integrated transient protection with fusing
- Bipolar 13 bit resolution
- High common mode voltage rejection and tolerance
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5502 | TBUX297211 | 8 channel isolated, differential, bipolar analog input module, +/-10V or +/-20mA |

Module 5504 – Thermocouple Input Module

Features:

- Eight type J, K, T, E or ±80 mV inputs
- Optical isolation for high reliability
- Integrated transient protection
- Linearized and cold junction compensated
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5504 | TBUX297166 | 8 channel isolated thermocouple input module, J,K,T,E |

Module 5505 – RTD Input Module

Features:

- Input values scaled and linearized
- Data returned as 32-bit floating-point number
- Lower power consumption
- Automatic 3-wire RTD compensation
- 5503 emulation mode for legacy systems
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5505 | TBUX297318 | 4 channel 3 or 4 wire RTD input module, 100ohm platinum |

Module 5506 – Analog Input Module

Features:

- 0 to 20mA / 4 to 20mA inputs
- 0 to 5V / 1 to 5V inputs
- Individual input configuration
- 5501 emulation mode for legacy systems
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)
- UL Listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5506 | TBUX297319 | 8 channel analog input module, each input individually configured |

Integral Antenna

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Analog Output Modules

Module 5302 – Analog Output Module

- Features:
- 20mA current
 - Low power
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5302* | TBUX297176 | 4 channel isolated analog output module, 0-20/4- 20mA (only two channels supported with SmartWIRE) |

Module 5304 – Analog Output Module

- Features:
- Selectable voltage and current modes
 - 5V and 10V selectable voltage modes
 - Low power
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|----------|--------------|--|
| 5304-20* | TBUX297248 | 4 channel analog output module, 0-20mA |
| 5304-10* | TBUX297252 | 4 channel analog output module, 0-10volts |
| 5304-5* | TBUX297253 | 4 channel analog output module, 0-5volts |
| 5304-C* | TBUX297254 | 4 channel analog output module, Custom (specify range of each input) |

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Digital Input Modules

Module 5403 – High Level Digital Input Module

Features:

- Reliable optical isolation
- Isolated in groups of 4 for ease of wiring
- Very low power requirements
- Universal AC or DC
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|----------|--------------|-------------------------------------|
| 5403-240 | TBUX297106 | 8 point discrete input module, 240V |
| 5403-120 | TBUX297107 | 8 point discrete input module, 120V |
| 5403-48 | TBUX297108 | 8 point discrete input module, 48V |
| 5403-24 | TBUX297109 | 8 point discrete input module, 24V |
| 5403-12 | TBUX297110 | 8 point discrete input module, 12V |

Module 5404 – High Level Digital Input Module

Features:

- 16 optically isolated digital inputs
- Isolated in groups of 4 for ease of wiring
- Very low power requirements
- 12 to 240 volts
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|-----------|--------------|--------------------------------------|
| 5404-240* | TBUX297154 | 16 point discrete input module, 240V |
| 5404-120* | TBUX297155 | 16 point discrete input module, 120V |
| 5404-48* | TBUX297156 | 16 point discrete input module, 48V |
| 5404-24* | TBUX297157 | 16 point discrete input module, 24V |
| 5404-12* | TBUX297158 | 16 point discrete input module, 12V |

Module 5405 – Digital Input Module

Features:

- High density, 32 digital inputs
- Sinking input design
- Low power
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|-----------|--------------|--|
| 5405-120* | TBUX297249 | 32 point discrete input module, 120V |
| 5405-24* | TBUX297247 | 32 point discrete input module, 12-24V |

Module 5410 – High Speed Counter/Accumulator

Features:

- Optically isolated
- 32 bit count range
- Wide input range 3 VDC - 28 VDC
- Guaranteed no missed counts to 10KHz
- Count retained during power outage
- Self clearing or accumulating
- Accepts quadrature phase inputs
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5410 | TBUX297149 | 4 channel, 10KHz counter input module (or 2 phase encoder inputs) |

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules



Digital Input Modules (continued)

Module 5414 – Compact Digital Input Module

Features:

- 16 optically-isolated digital inputs
- 12 to 240 volts
- Universal AC or DC
- Very low power requirements
- Compact module
- Class I, Division 2 Groups A, B, C and D Hazardous Locations
- CSA certified to UL508 standards
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2) (5414-24 only)
- 3 year warranty on parts and labor



Note: Not supported by 16-bit SCADAPack controllers

| Model: | Part Number: | Module: |
|----------|--------------|--|
| 5414-24 | TBUX297378 | 16 point digital input module (12/24V AC/DC) |
| 5414-48 | TBUX297379 | 16 point digital input module (48V AC/DC) |
| 5414-120 | TBUX297380 | 16 point digital input module (115/125V AC/DC) |
| 5414-240 | TBUX297381 | 16 point digital input module (240V AC/DC) |

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Digital I/O Modules

Module 5401 – Configurable Digital I/O Module

Features:

- Most cost-effective for low point counts
- Each point can be input or output
- Plug-in relays simplify maintenance
- High current outputs to 3A
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5401 | TBUX297121 | 8 point input/output module (Relay choices listed on Module 5401 specification sheet) |

Module 5402 – Configurable Digital Input or Output Module

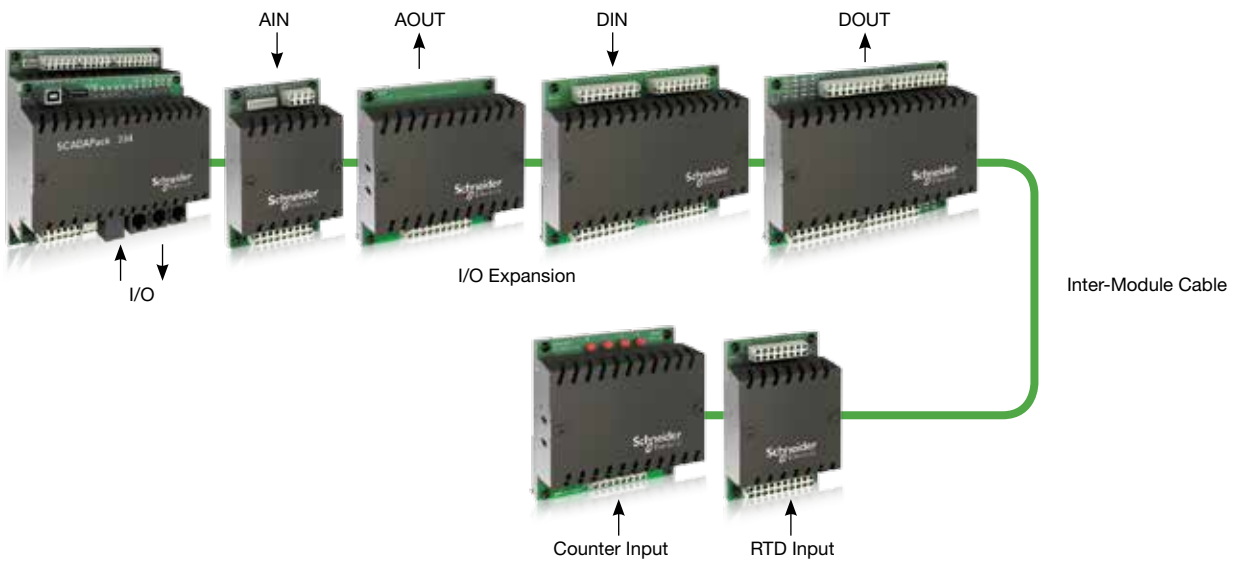
Features:

- 16 configurable digital inputs or outputs
- Each point can be AC or DC
- Plug-in relays simplify maintenance
- High current outputs to 3A
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5402* | TBUX297153 | 16 point input or output module (Relay choices listed on Module 5402 specification sheet) |

Typical Installation



SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Digital Output Modules

Module 5406 – Dry Contact Relay Out Module

Features:

- 16 mechanical relays
- Highest output load current
- Zero leakage current
- Individually isolated
- Modifiable for Form B (NC) operation
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5406* | TBUX297284 | 16 point Form A relay output module, 6A contacts |

Module 5407 – Dry Contact Relay Out Module

Features:

- Highest output load current
- Zero leakage current
- Individually isolated
- Modifiable for Form B (NC) operation
- Relays sealed against corrosion
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5407 | TBUX297126 | 8 point Form A relay output module, 6A contacts |

Module 5408 – Triac Digital Output Module

Features:

- Optical isolation
- Snubbers for inductive loads
- MOV transient suppression
- Zero-crossing turn on/off for low EMF
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5408 | TBUX297103 | 8 point triac output module, 24-240VAC @ 1A |

Module 5409 – FET Digital Output Module

Features:

- 8 isolated DC outputs
- Optical isolation
- Diode protected for inductive loads
- Power source LED
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5409 | TBUX297117 | 8 point DC output module, 12-24VDC @ 1A |

Module 5411 – Digital Output Module

Features:

- High density, 32 digital outputs
- Sinking output design
- Low power
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5411* | TBUX297246 | 32 point, 12-24V digital output module, open-drain type |

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules

> Digital Output Modules (continued)

Module 5415 – Compact Relay Digital Output Module

Features:

- 12 relay digital outputs
- Dry Contact or Solid State Relay versions
- Isolated in 3 groups of 4
- Very low power requirements
- Compact module
- Class I, Division 2 Groups A, B, C and D Hazardous Locations
- CSA certified to UL508 standards
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC per EN 60079-15, protection type n (Zone 2) , (5415-A only)
- 3 year warranty on parts and labor



Note: Not supported by 16-bit SCADAPack controllers

| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5415 | TBUX297382 | 12 point compact mechanical relay output module |
| 5415-A | TBUX297384 | 12 point compact solid state relay output module |

* I/O modules not fully supported by the non-programmable 5201 and 5202 controller modules.

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules



Combination I/O Modules

Module 5606 – Analog/Digital I/O Module

Features:

- High density IO combination board
- 32 DIs
- 16 Relay DOs
- 8 Configurable AIs
- 2 Optional AOs
- Up to 8 modules supported
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2), (24VDI/Solid State Relay type only)
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|---------------|--------------|---|
| 5606-24 | TBUX297328 | Combination 12-24V DI, Dry Contact DO and AI module |
| 5606-48 | TBUX297329 | Combination 48V DI, Dry Contact DO and AI module |
| 5606-120 | TBUX297330 | Combination 120V DI, Dry Contact DO and AI module |
| 5606-240 | TBUX297331 | Combination 240V DI, Dry Contact DO and AI module |
| 5606-24-AO | TBUX297334 | Combination 12-24V DI, Dry Contact DO, AI and AO module |
| 5606-48-AO | TBUX297335 | Combination 48V DI, Dry Contact DO, AI and AO module |
| 5606-120-AO | TBUX297336 | Combination 120V DI, Dry Contact DO, AI and AO module |
| 5606-240-AO | TBUX297337 | Combination 240V DI, Dry Contact DO, AI and AO module |
| 5606-24-A | TBUX297498 | Combination 12-24V DI, Solid-State DO and AI module, ATEX |
| 5606-48-A | TBUX297499 | Combination 48V DI, Solid-State DO and AI module |
| 5606-120-A | TBUX297500 | Combination 120V DI, Solid-State DO and AI module |
| 5606-240-A | TBUX297501 | Combination 240V DI, Solid-State DO and AI module |
| 5606-24-AO-A | TBUX297502 | Combination 12-24V DI, Solid-State DO, AI and AO module, ATEX |
| 5606-48-AO-A | TBUX297503 | Combination 48V DI, Solid-State DO, AI and AO module |
| 5606-120-AO-A | TBUX297504 | Combination 120V DI, Solid-State DO, AI and AO module |
| 5606-240-AO-A | TBUX297505 | Combination 240V DI, Solid-State DO, AI and AO module |

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules



Combination I/O Modules (continued)

Module 5607 – Analog/Digital I/O Module

Features:

- High density IO combination board
- 16 DIs
- 10 Relay DOs (Dry Contact or Solid State versions)
- 8 Configurable AIs
- 2 Optional AOs
- Up to 8 modules supported
- Class I, Division 2 Groups A, B, C and D Hazardous Locations
- CSA certified to UL508 standards
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2), (24VDI/Solid State Relay type only)
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|---------------|--------------|---|
| 5607-24 | TBUX297478 | Combination 12-24V DI, Dry Contact DO, and AI module |
| 5607-48 | TBUX297479 | Combination 48V DI, Dry Contact DO, and AI module |
| 5607-120 | TBUX297480 | Combination 120V DI, Dry Contact DO, and AI module |
| 5607-240 | TBUX297481 | Combination 240V DI, Dry Contact DO, and AI module |
| 5607-24-AO | TBUX297482 | Combination 12-24V DI, Dry Contact DO, AI and AO module |
| 5607-48-AO | TBUX297483 | Combination 48V DI, Dry Contact DO, AI and AO module |
| 5607-120-AO | TBUX297484 | Combination 120V DI, Dry Contact DO, AI and AO module |
| 5607-240-AO | TBUX297485 | Combination 240V DI, Dry Contact DO, AI and AO module |
| 5607-24-A | TBUX297490 | Combination 12-24V DI, Solid-State DO, and AI module, ATEX |
| 5607-48-A | TBUX297491 | Combination 48V DI, Solid-State DO, and AI module |
| 5607-120-A | TBUX297492 | Combination 120V DI, Solid-State DO, and AI module |
| 5607-240-A | TBUX297493 | Combination 240V DI, Solid-State DO, and AI module |
| 5607-24-AO-A | TBUX297494 | Combination 12-24V DI, Solid-State DO, AI and AO module, ATEX |
| 5607-48-AO-A | TBUX297495 | Combination 48V DI, Solid-State DO, AI and AO module |
| 5607-120-AO-A | TBUX297496 | Combination 120V DI, Solid-State DO, AI and AO module |
| 5607-240-AO-A | TBUX297497 | Combination 240V DI, Solid-State DO, AI and AO module |

Module 5608 – Digital I/O Module

Features:

- High density combination I/O board
- 12 DIs (12-24V)
- 6 DOs (Form A, dry contact relay)
- Up to 8 modules supported
- Certifications:
 - CE marking
 - C-Tick
 - UL508 (US/Canada) – cULus
 - FCC/ EN61000-6 emissions & immunity
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|---------|--------------|--|
| 5608-24 | TBUX297177 | Combination 12-24V DI, dry contact relay DO module |

Module 5610 – Digital I/O Module

Features:

- Features:
 - High density combination I/O board
 - 16 DIs (12-24V)
 - 10 DOs (Form A, dry contact relay)
 - Up to 8 modules supported
- Certifications:
 - CE marking
 - C-Tick
 - UL508 (US/Canada) – cULus
 - FCC/ EN61000-6 emissions & immunity
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|---------|--------------|--|
| 5610-24 | TBUX297178 | Combination 12-24V DI, dry contact relay DO module |

Note: The 5608 and 5610 modules are for use with the SCADAPack E RTUs only.

Disclaimer: Schneider Electric reserves the right to change product specifications. For more information, visit www.schneider-electric.com.

SCADAPack I/O Expansion & Communication Modules

I/O Expansion Modules



I/O Simulator Modules

Module 5421 – Toggle Switch Digital Input Module

Features:

- Reliable, sealed toggle switches
- Ideal for simulation, testing
- Status LEDs show switch position
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5421 | TBUX297104 | 8 point, toggle switch DI module for simulation/testing |

Module 5521 – Potentiometer Input Module

Features:

- Multi-turn pots aid adjustment
- 12 bit resolution
- Does not require 24V power
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5521 | TBUX297119 | 8 channel potentiometer analog input module for simulation/testing |

SCADAPack I/O Expansion & Communication Modules

Communication Modules

> Modems

Module 5902 – Bell 202 Radio or Leased Line Modem

- Features:
- Universal radio or telephone interface
 - Soft carrier turnoff for rapid turn-around
 - Excellent performance on poor lines
 - Optional stand-alone versions for PCs
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|---------|--------------|---|
| 5902 | TBUX297120 | Bell 202 modem module, 1200 baud, FSK, 2/4 wire, with radio PTT key control and RF carrier detect |
| 5902SA | TBUX297194 | Same as 5902 with a 115VAC AC adapter for connection to PCs or other RS-232 devices |
| 5902SAF | TBUX297195 | Same as 5902SA with a full duplex to half duplex converter - for devices without RTS/CTS support |

> Interface Modules & Gateways

Module 5904 – HART Interface Module

- Features:
- Compliant with HART physical layers specifications
 - Configurable as primary or secondary master
 - Unloads HART protocol details from application software
 - Enables up to 4 HART ports per CPU without using CPU serial ports
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|-----------------------|
| 5904 | TBUX297205 | HART interface module |

Module 5908[†] – Wireless Data Transceiver

- Features:
- Available in 900 MHz and 2.4 GHz versions
 - Long range (60 miles with 900 MHz models)
 - High speed (115.2 Kbps true data throughput)
 - Incorporates Freewave Radio Technology
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|-----------|--------------|---|
| 5908 | TBUX297270 | Radio Transceiver, Freewave 900MHz Spread Spectrum Radio, 6-30VDC |
| 5908-2.4G | TBUX297283 | Radio Transceiver, Freewave 2.4GHz Spread Spectrum Radio, 6-30VDC |

Module 5908-WO2[†] – Wireless Data Transceiver

- Features:
- High Speed (115.2 kbps true data throughput)
 - Incorporates MDS Radio Technology
 - Store and Forward – with self healing network
 - Unlimited repeater stations
 - Sleep Mode – ideal for solar power applications
 - cCSAus and cULus Class I, Division 2 Hazardous Area Rating
 - UL508 listed
 - 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|----------|--------------|---|
| 5908-WO2 | TBUX297310 | Radio Transceiver, MDS 900 Spread Spectrum Radio, 9-30VDC |

SCADAPack I/O Expansion & Communication Modules

Communication Modules



Interface Modules & Gateways (continued)

Module 5910 – Ethernet Switch

Features:

- 5-port, 10/100BaseT Ethernet switch.
- Auto MDI/MDI-X crossover operation
- Powered by SCADAPack 5V source
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5910 | TBUX297288 | Ethernet Switch, 5 port (unmanaged), 10/100Mb autodetect, 12-24 Vdc powered |
| 5910SA | TBUX297289 | Same as 5910 with a 115VAC AC adapter for connection to PCs or other RS-232 devices |

Module 5913 – Serial to Bluetooth® Adapter

Features:

- Acts as *Bluetooth*® slave,
- Connects to SCADAPack RJ-45 serial port connector, (cable included)
- Wireless communications module certified to *Bluetooth*® version 2.0
- *Bluetooth* Class 1: +100 meter (330 feet) distance when communicating with another Class 1 device
- Encryption and 16-character alphanumeric Personal Identification Number (PIN) and error correction schemes for guaranteed packet delivery

| Model: | Part Number: | Module: |
|--------|--------------|--|
| 5913 | TBUX297373 | Serial to <i>Bluetooth</i> Adapter w/ 24" RJ45-to-RJ45 cable |

Module 5914 – USB to Bluetooth® Adapter

Features:

- Acts as *Bluetooth*® master
- Connects to USB port on desktop or laptop computer
- Wireless communications module certified to *Bluetooth*® version 2.0
- *Bluetooth*® Class 1: +100 meter (330 feet) distance when communicating with another Class 1 device
- Encryption and 16-character alphanumeric Personal Identification Number (PIN) and error correction schemes for guaranteed packet delivery

| Model: | Part Number: | Module: |
|--------|--------------|---------------------------------------|
| 5914 | TBUX297374 | USB to <i>Bluetooth</i> ® Transceiver |

Module 5915 – SDI-12 Interface Module

Features:

- RS232 to SDI-12 hardware interface
- Supported by SCADAPack 32 & 300 Series controllers
- C++ application provides SDI-12 protocol functionality *
- Companion TelePACE or ISaGRAF application generates protocol messages *
- External (RJ45) RS232 connection to SCADAPack com port
- Powered by external 12V source.
- Class I, Division 2 Groups A, B, C and D Hazardous Locations
- CSA certified to UL508 standards
- UL508 listed
- ATEX II 3G and IECEx: Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2)



| Model: | Part Number: | Module: |
|--------|--------------|-------------------------|
| 5915 | TBUX297475 | SDI-12 Interface Module |

† Note: Serial communication cable sold separately

SCADAPack I/O Expansion & Communication Modules

Miscellaneous Modules



UPS Power Supply

Module 5103 – Uninterruptible Power Supply

Features:

- Transformer isolated
- Built-in battery charger for UPS
- Isolated 24 volt analog loop output
- Dual, wide range AC/DC inputs
- Cool running switch-mode design
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5103 | TBUX297102 | External UPS with 5V@2A, 24V@0.5A isolated outputs, 16-24VAC or 12-40 VDC |



Non-Programmable Controller Modules

Module 5201 – RS-485 Communication Controller

Features:

- Simple configuration - no programming required
- Powerful industry-standard protocol
- Supports 64 AI, 64 DI, 64 DO, 32 AO
- Watchdog timer
- Power saving LED control
- cCSAus and cULus Class I, Division 2 Hazardous Area Rating
- UL508 listed
- 3 year warranty on parts and labor



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5201 | TBUX297101 | CPU, 1 RS-485 port, 2/4 wire, supports up to to 64 D/I, 64 D/O, 64 A/I and 32 A/O, non-programmable |

Module 5202 – RS-232 Communication Controller

Features:

- Simple configuration - no programming required
- Powerful industry-standard protocol
- Supports 64 AI, 64 DI, 64 DO, 32 AO
- Watchdog timer
- Power saving LED control



| Model: | Part Number: | Module: |
|--------|--------------|---|
| 5902 | TBUX297111 | CPU, 1 RS-232 port, DB9P, supports up to to 64 D/I, 64 D/O, 64 A/I and 32 A/O, non-programmable |

I/O Expansion Module Compatibility Chart

With our ever-increasing product line offering in both SCADAPack Controllers and IO & Communication Expansion modules, it is important to know which module is supported by which controller. The following chart summarizes the current module compatibility.

This list is subject to change at any time. Please contact the factory for up-to-date information.

| IO Expansion Modules | 16-Bit SCADAPack | | | | | | 32-Bit SCADAPack | | | |
|----------------------|------------------|-----|--------|-----|-----|-------|------------------|-----|-----------|-----|
| | Micro16* | SP* | Light* | LP* | 100 | Plus* | 32 & 32P | 300 | 300E & ES | ER* |
| AIN 5501 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AIN 5503 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AIN 5504 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AIN 5521 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AIN 5502 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AIN 5505 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| AIN 5506 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| AO 5301 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AO 5302 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| AO 5304 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| CNTR 5410 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5401 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5402 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5403 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5404 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5405 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| DIN 5421 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DIN 5414 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✗ |
| DO 5401 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5402 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5406 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5407 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5408 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5409 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| DO 5411 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| DO 5415 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✗ |
| HART 5904 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ |
| SDI-12 5915 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ |
| 5606 | ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| 5607 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✗ |
| 5608 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |
| 5610 | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✗ |

Note: * Discontinued product. For information purposes only.