



remsdaq

Callisto^{nx}

Expansion Modules

evolution of proven technology



FEATURES

- Comprehensive library of expansion modules
- Robust design
- Clear module identification
- Automatic module detection
- Module select indication
- Local indication/diagnostics (via PSU LCD)
- On board watchdog
- Analogues auto calibrated/temperature compensated

An arrangement of sockets on the Callisto^{nx} Utility Controller provides flexible expansion from a family of plug-in I/O modules. Virtually unlimited expansion for networked intelligent configurations using plug-in station bus modules.

I/O Expandability

16 Digital Input Module

- Optically isolated inputs
- Inputs configurable on a per point basis
- 1 ms SOE time-tagging
- Support of Form A, B and C accumulators
- Configurable de-bounce and anti-chatter filters
- Bipolar inputs for positive or negative ground supply
- Wide range of input wetting voltages



4 or 8 DC Analogue Input Module

- 16 bit resolution
- Accuracy 0.1% FSD (at 25°C)
- High common mode and differential mode rejection ratio



6 DO Flex Output Module

- Configurable relay outputs
- General purpose, secure SBO & double pole switched
- Isolation voltage coil to contact 5kV rms
- Long mechanical life



8 T/C DO (low voltage) Output Module

- Welded contact detection
- High density design



3 Voltage & Current AC Input Module

- 16 bit resolution
- Accuracy 0.1% FSD (at 25°C)
- 128 samples/cycle (minimum sample rate)
- Input range options: 0-150V rms or 0-325V rms
- Universal 1A or 5A CT ranges
- Isolated 3 CT termination module
- Minimal load burden 69µW (1A or 5A ranges)
- Over-current range up to 50 times nominal input



3 or 6 AC Current CT Module

- Universal 1A or 5A ranges
- 16 bit resolution
- Accuracy 0.1% FSD (at 25°C)
- Overcurrent measurement up to 40 times nominal input (1% FSD)
- Isolated 3 CT termination module
- Minimal load burden 69µW (1A or 5A ranges)
- Over-current range up to 50 times nominal input



Actuator Interface Module

- DI and DO to automate one switch actuator (typically)
- Up to six switches per Utility Controller
- Tri-colour LED indicators for switch position

Communications Expandability

4 RS232/485 Serial Module

- Isolated Ports
- RJ45 (RS232) / terminal block presentation (RS485)
- TX/RX indications
- 15kV ESD protection



4 Fibre Optic Serial Port Module

- 820nm multimode operation
- ST2 connectors
- 4 TX/RX (pairs) with indication
- Typical distance 1500m (50/125µm) and 2800m (62.5/125µm) glass fibre



10/100Base-T(X) Station Bus Module

- 2 ports
- Supports single, dual and resilient LAN arrangements
- Distance: up to 100m



10/100Base-T(X) Station Bus plus Process Bus Module

- 2+2 ports
- Distance up to 100m



100 Base FX Station Bus Module

- 2 ports
- SC connector
- Supports single, dual and resilient LAN arrangements
- 1300nm multimode operation
- Typical distance up to 2km



100 Base FX Station Bus plus Process Bus Module

- 2+2 ports
- SC connector
- Supports single, dual and resilient LAN arrangements
- 1300nm multimode operation
- Typical distance up to 2km



