

Callisto^{nx}

evolution of proven technology

Expansion Modules



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
- Analogue 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



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



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



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



8 T/C DO (low voltage) Output Module

- Welded contact detection
- High density design



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



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

- 2 ports
- Supports single, dual and resilient LAN arrangements
- 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



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 plus Process Bus Module

- 2+2 ports
- Distance up to 100m



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



Ordering Information

Digital Input Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options
CX	DI	xxx	xxx	xxx	x	<p>S Screwless Terminals T Screw Terminals B Barrier-Block Terminals</p> <p>x Option Not Applicable</p> <p>012 12V DC (nominal) Digital Inputs (Max 18V, On 8V*, Off 5V*) 024 24V DC (nominal) Digital Inputs (Max 36V, On 16V*, Off 12V*) 048 48V DC (nominal) Digital Inputs (Max 72V, On 30V*, Off 24V*) 110 110V DC (nominal) Digital Inputs (Max 170V, On 65V*, Off 50V*) 220 220V DC (nominal) Digital Inputs (Max 300V, On 150V*, Off 85V*)</p> <p>S Standard DI Digital input expansion module</p>
						*Guaranteed on/off voltages

Relay Output Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options
CX	DO	xxx	xxx	xxx	x	<p>S Screwless Terminals T Screw Terminals B Barrier-Block Terminals</p> <p>x Option Not Applicable</p> <p>x Option Not Applicable</p> <p>S 6 DO Flex Output Module 8A @30VDC; 2000VA; 250VAC max M 8 T/F DO (low voltage) Output Module 1A 30VDC; 30W/37.5VA; 60VDC max AIM Actuator Interface Module 8A @30VDC; 2000VA; 250VAC max</p> <p>DO Digital output expansion module</p>
						*Guaranteed on/off voltages

Analogue Input Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options
CX	AI	xxx	xxx	xxx	x	<p>Other S Screwless Terminals T Screw Terminals B Barrier-Block Terminals 3/6I x Option Not Applicable</p> <p>x Option Not Applicable</p> <p>3VI 150 110V AC (nominal) 325 240V AC (nominal) Other x Option Not Applicable</p> <p>3VI 3 AC Voltage plus 3 AC Current Inputs (1A/5A) 3I 3 AC Current Inputs (1A/5A) 6I 6 AC Current Inputs (1A/5A) 4DC 4 DC Unipolar or bipolar 0 to+/-5V or 0 to +/-20mA 8DC 8 DC Unipolar or bipolar 0 to+/-5V or 0 to +/-20mA</p> <p>AI Option Not Applicable</p>
						*Guaranteed on/off voltages

Communications Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options
CX	CE	xxx	xxx	xxx	x	<p>x Option Not Applicable</p> <p>x Option Not Applicable</p> <p>SX 4CU 4 RS232/485 Serial Ports 4FO 4 FO Serial Ports SCU 10/100BaseTX Station Bus SFO 100BaseFX Station Bus PCU 10/100BaseTX Station Bus plus Process Bus PFO 100BaseFX Station Bus plus Process Bus</p> <p>SX Serial EX Ethernet</p> <p>CE Communications expansion module</p>
						*Guaranteed on/off voltages



Certified by Afnor UK



Certified by Afnor UK

Remsdaq Limited, Parkway, Deeside Industrial Park, Deeside, Flintshire, CH5 2NL, United Kingdom.

tel: +44 (0) 1244 286495 fax: +44 (0) 1244 286496 web: www.remsdaq.com mail: sales@remsdaq.com Registered in England No. 3417251.

Remsdaq has a policy of continuous product development and improvement.

Whilst all information is correct at the time of going to press, we reserve the right to make changes without notice. All trademarks are duly acknowledged.