



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



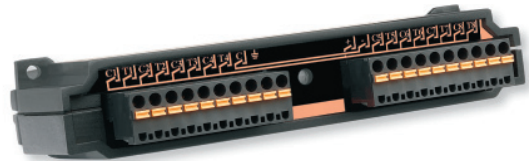
6 DO Flex Output Module

- 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



Ordering Information

Digital Input Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options	
CX	DI	xxx	xxx	xxx	x		
						S	Screwless Terminals
						T	Screw Terminals
						B	Barrier-Block Terminals
						x	Option Not Applicable
						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*)
						S	Standard
DI	Digital input expansion module						

Relay Output Expansion Module

*Guaranteed on/off voltages

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

Analogue Input Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options		
CX	AI	xxx	xxx	xxx	x			
						Other	S	Screwless Terminals
							T	Screw Terminals
							B	Barrier-Block Terminals
						3I/6I	x	Option Not Applicable
						x	Option Not Applicable	
						3VI	150	110V AC (nominal)
							325	240V AC (nominal)
						Other	x	Option Not Applicable
						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						
AI	Option Not Applicable							

Communications Expansion Module

Product Range	Product Code	Type	Opt 1	Opt2	Opt 3	Options		
CX	CE	xxx	xxx	xxx	x			
						x	Option Not Applicable	
						x	Option Not Applicable	
						SX	4CU	4 RS232/485 Serial Ports
							4FO	4 FO Serial Ports
							SCU	10/100Base(TX) Station Bus
						EX	SFO	100BaseFX Station Bus
							PCU	10/100Base(TX) Station Bus plus Process Bus
							PFO	100BaseFX Station Bus plus Process Bus
						SX	Serial	
						EX	Ethernet	
CE	Communications expansion module							



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