

Callisto *axl*

evolution of proven technology



FEATURES

- Smart Distribution Network Automation Schemes
- Main Board I/O 16 DI, 8 DO (standard) plus 4 DC A/I (option)
- Mix and match I/O expansion slots
- 2 Ethernet, 2 serial ports
- IEC 61850 compliant (option)
- IEC 61131 logic (option)
- Multi-protocol support
- Integrated GPS receiver (option)
- Comprehensive diagnostic & configuration tools

Callisto *axl* delivers a cost effective compact solution for small point count SCADA and automation requirements

Product Features

General:

- Extensive distribution automation applications
- Standalone or networked architecture
- DNP3, IEC870-5-101, 103 & 104 protocol support
- SOE processing to 1 ms accuracy
- IEC 61850 (option)
- IEC 61131 PILOT^{nx} programmable logic (option)
- View^{nx} embedded web server
- CaSE^{nx} PC based configuration tool
- GSM, 3G/4G and Packet Switched Radio Support
- Co-operative Peer to Peer capabilities

Base I/O:

- 16 optically isolated digital inputs
- 8 digital outputs configured as either 4 trip/close pairs or direct operate
- LEDs for local status indications
- Dummy circuit breaker via bi-colour LED indications
- 4 DC analogue inputs unipolar or bi-polar 0 to +/- 10V or 0 to +/- 20mA (option)

Integral Communication Ports:

- 2 Ethernet ports 10/100Base-T(X)
- 2 serial ports (1 x RS232 and 1 x RS485)
- 1 USB 2.0 port

Memory:

- Flash 256 MB, DDR2 SDRAM 128 MB & Micro SD Flash slot

Expansion:

2 expansion slots each accommodating:

- 16 optically isolated digital inputs
- 8 digital outputs configured as either 4 trip/close pairs or direct operate
- 4 DC analogue inputs unipolar or bi-polar 0 to +/- 10V or 0 to +/- 20mA (option)

Dimensions:

- 300mm x 212mm x 35mm (118.5mm with expansion module)

Compliances

EMC Immunity:

EN60255-26:2013, EN301 489-3v1.6.1, EN301 489-1v1.9.2, EN55024:2010 & EN61000-4-10:1999+A1:2001

Electrostatic Discharge Immunity

Radiated RF Immunity

Electrical Fast Transient/Burst Immunity

Surge Immunity

Conducted RF Immunity

Power Frequency Magnetic Field Immunity

Conducted Common Mode Disturbances (Power Freq)

Slow Damped Oscillatory Wave

Voltage Dips and Short Interruptions Immunity

Gradual shut-down

DC Ripple test

Damped Oscillatory Magnetic Field

EMC Emissions:

EN60255-26:2013, EN301 489-3v1.6.1, EN301 489-1v1.9.2 & EN55022:2010

Radiated Emissions—Class A

Conducted Power Line Emissions—Class A

Conducted Common Mode Emissions (LAN) - Class A

Environmental:

BS EN60068-2-2:2007 Dry Heat Test

70°C for 16 hours

BS EN60068-2-3:1969 Damp Heat Test

40°C @ 95% Relative Humidity

Typical Applications

Substation/distribution automation

Remote terminal unit

Pole Top

Programmable logic controller

Data logger

Communications gateway

Callisto *nxl* Base Unit Part Numbers

Product Range	Product Code	Opt 1	Opt 2	Opt 3	Opt 4	Options	
NXL	BU	xxx	xxx	xxx	xxx		
						S	No GPS
						GPS	GPS
						S	No PILOT Logic
						LOG	PILOT Logic
						S	No DC Analogue Inputs
						4DC	4 DC Analogue Inputs
						S	Standard
						850	IEC 61850
						BU	Base Unit
						NXL	Callisto <i>nxl</i>

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