COE X-Net^{TM} CC-16 Module

Contact closure module to add up to 16 duplex contact closure channels to X-Net Optical modules or codec.

With increasing convergence of IT and CCTV technologies, modern CCTV networks have grown tremendously and have become very complex. Increasingly, operators need to connect multiple external devices (such as poisonours gas sensors) to the video transmitters to transmit alarms back to central control rooms. Most X-Net modules have two contact closures but in case more contact closure channels are required, CC-16 module offers a cost effective way to expand the system. With a pair of CC-16 modules, it is possible to add upto 16 contact closures to any X-Net module.
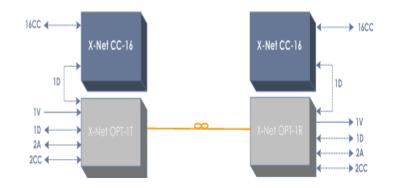
Features & Benefits

Add Upto 16 contact closure channels - Flexibility to add new devices to the CCTV network without having to replace existing modules

Receive alarms using SNMP - Using the X-Net NMS card, SNMP traps can be generated for alarms received by the CC-16 card. This can be ver useful when external sensors (such as smoke detectors, infrared sensors etc.) are connected to CC-16

Possible to Daisy Chain multiple cards - In case more alarms are required, it is possible to Daisy Chain multiple CC-16 cards

Native Telecommand support - CC-16 can be directly connected to Telecommand to launch a sequence of actions in response to an alarm (such as pointing cameras to a   certain position, starting recording on DVRs etc.)

Standard RJ45 connectors and pin outs - Allows CC-16 to connect to other X-Net modules by using standard ethernet patch cords.

Flexible power supply options - internal or external, single or dual redundant supplies. With options for 12VDC, 48VDC, 24VAC & 90-264VAC.

Overview

The X-Net system has been designed with two goals in mind, Flexibility and Reliability. These two goals are reflected throughtout the product range with features such as field upgradeable optics, flexible power supply options, ability to remotely administer complex CCTV installations via NMS card, MTBFs in excess of 15 years and warranty of 5 years etc.

X-Net CC-16 is also geared towards providing the user the flexibility to add additional contact closure channels as required. By utilizing one data channel of an X-Net module (As demonstrated in the adjacent picture), upto 16 contact closures can be added.

Sales Code

X-Net CC-16   X-Net Alarm module 16 contacts and 16 relay outputs, 1 x serial channel - Utilises 2 rack slots.

Performance and Specifications

Contact Closure

Channels	16 (duplex)
Format	TTL/Grounding Input, FET Relay output
Response Time	<1ms
Maximum Relay rating	48V DC/AC, 100mA
Contact Resistance	25 Ω (Typical), 50 Ω (Max)
Connector	RJ45

Configuration: When the input is pulled low (i.e., shorted to ground), the corresponding output relay will also be on (i.e. closed).

Data Channel 1

Channels	1
Format	RS232/RS422/RS485 2W/4W
Rate	19.2 kbps
Line Biasing (RS485)	Switchable
Failsafe	Switchable
Connector	RJ45
Jitter	<12%@max bit rate

Environmetal

Operating temperature	-40 °C to +74 °C
Storage temperature	-40 °C to +74 °C
Enduarance	1000 hours
Humidity	5% to 95% (Non Condensing)

Mechanical

Dimensions	12HP x 4U x 167mm
Rack Slots	2

Power requirements

Supply Voltage	9 to 14V DC or 24V AC
Card Protection	Poly Fuse
Current Consumption	<500mA (typical @ 12V)
Edge Connector	Samtec Power-Mate (10 way) (IPBT-11-H1-T-D-RA-GP)

MTBF

CC-16	>100,000 hours

EMC

EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2 6kV(C), 8kV (A), EN61000-4-3 10V/m, EN50204 20V/m, EN61000-4-6 10V, EN61000-4-4 2kV,