COE X-Net NMS Modules

Network Management module for remote diagnostics and alarm reporting of X-Net modules via SNMP or web browser.

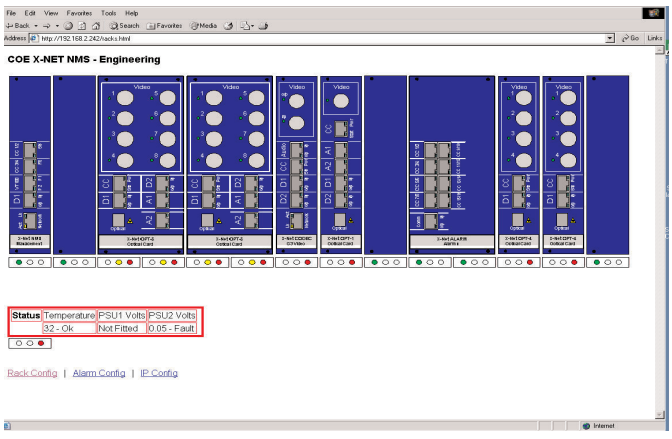
With increasing convergence of IT and CCTV technologies, modern CCTV networks have grown tremendously and have become very complex. With equipment spread over hundreds of kilometers, the diagnostics of the equipment out in the field can be a nightmare for a CCTV operator. But with the new COE X-NET NMS card, a CCTV operator can monitor the health of all his X-Net modules without ever having to leave the control room.

System Features and Benefits

- Generate alarms on faults in X-Net optical modules/ codec- Can detect video loss, laser faults, Data Errors, Extended distance faults for optical modules, Temperature, Extended power supply status (temperature, fan status, voltage etc.)
- Remotely monitor vital parameters - A few of the parameters that can be monitored are listed below:
  - **Laser** Laser Current, Laser Temperature, Optical receive power
  - **Data** Data format for all channels, data status (low, high, data)
  - **Board** Board temperature, Slot address, video status
  - **PSU** Voltage, Current, Temperature, Status, Fan status
  - **Codec** Temperature, Slot Address, IP address, resolution/frame rate, bandwidth usage
- Report alarms via serial, ethernet or contact closure interfaces - Can even trigger a SNMP trap in response to an external alarms connected to the contact closure channel, thus enabling remote monitoring of devices which otherwise don't support SNMP.
- Collects data from local and remote racks - Thus only one NMS card is required for a pair of racks.
- Seamless integration into COE Telecommand - COE Telecommand can be used to trigger complex actions such as switching matrices, macros, salvos, tours etc. in response to alarms generated by NMS card.
- Comprehensive 5 year warranty - All X-Net modules are covered by a comprehensive 5 year warranty and have MTBF in excess of 100,000 hours.

User Interface

The NMS card web browser interface has been designed to be very intuitive and easy to use. We have tweaked the interface based on the feedback of a number of our customers. The whole rack is graphically presented to the user with the appropriate card populating the corresponding slot. So looking at the web browser is almost equivalent to looking at the actual rack in the field. The cards can then be clicked on to get the diagnotics information for that card.



Sales Code

X-Net NMS	X-Net Network Management System module with SNMP and web browser support - Utilises 1st 6HP rack slot.

Performance and Specifications

Alarms & Monitoring

Data	Data format, data status (low, high, data), Data parity errors
Optical	Slot address, Laser Status, Loss of Signal, Rx Alarm
Advanced Optical	Laser current, Laser Temperature, Optical received power. These alarms are available with special lasers. Please contact COE sales for more information
Codec	Temperature, Slot Address, Status, IP address, Resolution & framerate, Bandwidth usage
General	Board Temperature, Slot Address, Video status
Power Supplies	Temperature, slot address, status, fan, voltage, current

NOTE: New status information may be added and old ones removed via software updates at any time. If you need a specific status, please contact COE Sales to confirm.

Data Channel 1

Channels	1
Format	RS232
Rate	0-128kbps
Connector	RJ45
Jitter	<12%@max bit rate

Data Channel 2 (Telecommand/3rd party)

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

Contact Closure

Channels	4 (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

Ethernet

Channels	1
Interface	IEEE 802.3 10/100 BaseT
Network	Auto Sensing, full/half duplex
Connector	RJ45

Environmetal

Operating temperature	-40 °C to +74 °C
Storage temperature	-40 °C to +74 °C

Mechanical

Dimensions	6HP x 4U x 167mm
Rack Slots	1

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

NMS	>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, EN61000-4-5 2kV, EN61000-4-8 50Hz & dc 100A/m, EN61000-4-9 300A/m, EN61000-4-11, EN60950-1:2002 + A1:2003, EN60825-2:2000

Issue 1.1 13/06/08

COE Limited · Photon House · Percy Street · Leeds LS12 1EG
Tel:+ 44 113 230 8800 · Fax:+ 44 113 279 9229
DDI: + 44 113 230 8801 · Email: sales@coe.co.uk
www.coe.co.uk

Asia Tel: + 65 6325 6018 · Fax: + 65 6223 0372