COE X-Net™ Star Driver Module

The X-Net Star Driver module provides 8 buffered data outputs for connecting multiple telemetry devices over a single data tranmission channel.

The X-Net Star Driver is a companion card to the X-Net range of Optical and Codec modules. With the X-Net Star Driver, it is possible to connect up to 8 telemetry devices over a single X-Net data channel whilst maintaining a star wiring topology. Therefore, the star driver is ideally suited when a star format network or large cable runs are required. Additionally, the unit also enables networks to be split into segments with different data protocols on each star driver. Each Star Driver is also independently configurable to support different data formats as required. Thus allowing for cost effective system expansion of the CCTV network without the need to re-route data cabling.

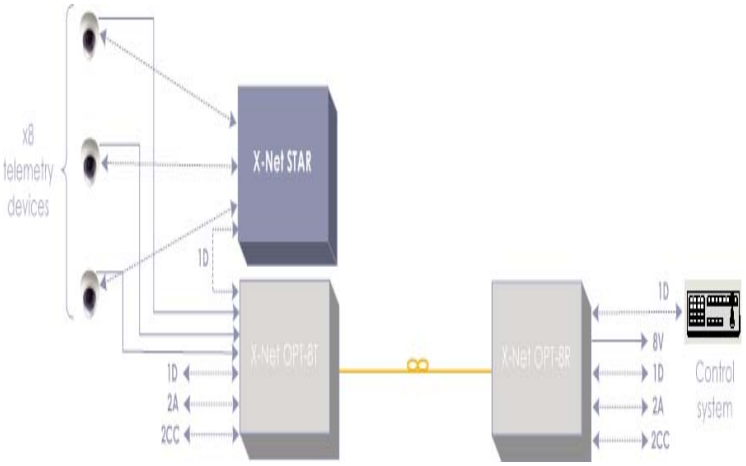
Features & Benefits

- Add 8 buffered data ports - Flexibility to add new devices to the CCTV network without having to replace existing modules
- Configurable data formats - Each Star Driver can be configured to support RS232/RS422/RS485 2 wire or 4 wire configuration.
- Possible to Daisy Chain multiple cards - In case more data channels are required, it is possible to Daisy Chain multiple Star Driver cards together
- Network rail compliant - Meets & exceeds network rail EMC standards.
- Native Telecommand support - The Star Driver can be directly connected to Telecommand thus allowing telemetry control of multiple devices via the Telecommand keyboard and asociated GUI applications
- Standard RJ45 connectors and pin outs - Allows Star Driver to connect to other X-Net modules using standard ethernet patch cords.
- Flexible power supply and rack options - can be housed within the X-Net Rack or X-Net Box with 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 the NMS module, MTBFs in excess of 15 years and warranty of 5 years etc.

X-Net Star Driver is also geared towards providing the user the flexibility to add additional data ports as required. Utilising one data channel of an X-Net module, 8 buffered data ports can be added to any module (as demonstrated in the adjacent picture).



Sales Code

X-Net STAR	X-Net STAR driver module. Provides 1 x serial port to 8 x serial port expansion. - Utilises 2 x 6HP rack slots.

Performance and Specifications

Data Channel 1

Channels	1
Format	RS232/RS422/RS485 2W/4W
Rate	0-128kbps
Line Biasing (RS485)	Switchable
Failsafe	Switchable
Connector	RJ45
Jitter	<12%@max bit rate

Data Ports 2-9 (Buffered)

Ports	8
Format	Set by channel 1
Rate	0-128kbps
Line Biasing (RS485)	Switchable
Failsafe	Switchable
Connector	RJ45
Jitter	<12%@max bit rate

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,

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

Star Driver	>100,000 hours

Issue 1 01/11

In line with the company policy of continuous improvement, COE reserves the right to vary descriptions and specifications without notice.

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