

COE C-class

16 Channel Digital Multiplexer for copper or fibre optic transmission medium

COE is a world leader in control systems for medium to large scale networked and stand alone CCTV applications. The flexibility and ease-of-use of our systems and products assures our prime position in the provision of transmission solutions.

CONFIGURATION OVERVIEW

This C-class 16 channel digital transmission system, for data, audio and ancillary signals within the surveillance market, has been designed to complement the overall existing and future range of multi and single channel video transmission products from COE Limited.

The COE C-class enables high capacity data, audio and ancillary signal transmission for optical fibre as well as for electrical backbones, and will provide the user with a powerful combination of transmission features. In this way, the complete integration of transmission networks across several different topologies can be facilitated.

The system comprises the following two core sets of modules, which provide fibre/electrical systems interfacing and 16 duplex user channels:

■ Line cards

Single and multi mode line cards for fibre systems.

RF line interfaces for existing COE products and cable systems.

Customer-specific digital line interfaces to allow third party integration.

A video channel compliant analogue line interface for third party integration.

■ User interface cards

Data card for RS232, RS422, RS485 and Echelon Lonworks™ Telemetry data for data rates up to 156 Kbs⁻¹.

Audio card for PA/music distribution and intercom systems.

Contact closure card for alarm point monitoring and control.

Customer specific – COE offers a design service for bespoke interfaces – please contact COE sales for further information.

Lonworks™ is a registered trademark of the Echelon Corporation.

C-CLASS FEATURES & BENEFITS

16 channel duplex multiplexer - assures a high capacity, full duplex capability.

Compatible with a wide range of interfaces - enables the implementation of additional services within CCTV applications (for example, intercom, hi-fi audio and contact transmission).

Optical, RF and digital interfaces - provides integration into a wide range of third party equipment.

Standard 3U, 19" rack mounting - conforms to standard international practices for ease of integration.

Integral power supply units - means that no external power supply is required for this product.

Equipment diagnostics - provides comprehensive fault location via LED's, which is invaluable for the operation of large systems.

COE systems compatibility - fully compatible with V-class, Series 1200, Series 300, Series 120 and Series 170 transmission systems for flexible system design and video system choice.



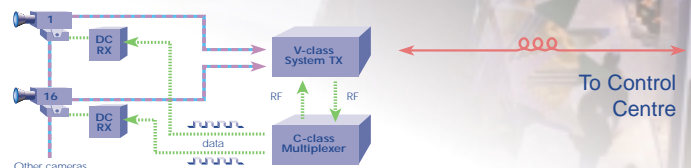
TYPICAL APPLICATIONS

This C-class product provides increased flexibility solutions where system requirements go beyond VIDEO-ONLY transmission within CCTV, Transportation and Communications applications.

Camera Hub Site

A C-class transmission system can be utilised together with a V-class system to provide multiple data and video paths.

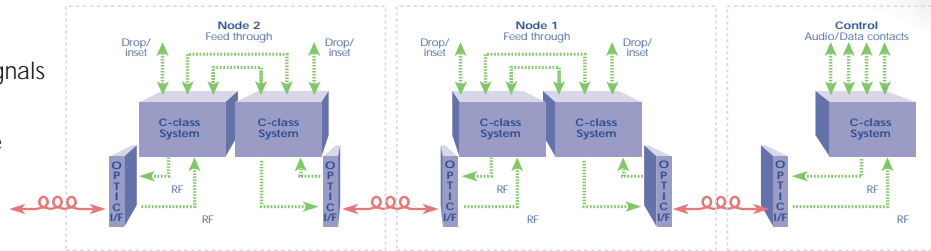
This solution is especially appropriate where camera telemetry is via star type data networks.



Long Line

The repeat and drop/insert capability of this C-class product provides multiple routing of signals on just one or two optical fibres.

Typical applications include Rail/Road long line infeeds, where signal integrity is maintained at a high state as a result of the digital transmission techniques utilised.



Line Cards

The 16 Channel multiplexer is required on all system configurations, and provides a video I/F port and TTL level I/F port for third party systems.

System interface cards enable use with the COE V-class video multiplexer (receivers and transmitters).

Customer Interface Cards

A 2 channel audio I/F card provides 2 discrete duplex audio channels with 4-wire interfaces.

An 8 channel contact closure transmission card provides 8 duplex contact closure transmissions. Input can be specified as grounding I/P or opto-isolated, and NC/NO relay outputs are provided for each contact closure signal.

The 2 channel data I/F card provides two discrete duplex data channels suitable for use with telemetry/system communications signals (link selectable interface).

A single channel high speed data I/F card provides one channel of high speed (DC-156Kb/s) duplex data (link selectable format).

Rack

A 3U, 19" rack holds all line cards, up to 8 user cards, the network I/F card and a 90-264V AC mains PSU; all user connections are at the rear of the chassis.

Spare Power Supply

(90-264V AC)

Provides all power outputs for a complete chassis.



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Dealer Stamp



COE Limited • Photon House • Percy Street • Leeds LS12 1EG

Tel: + 44 113 230 8800 • Fax: + 44 113 279 9229

Sales DDI: + 44 113 230 8801 • Email: sales@coe.co.uk

<http://www.coe.co.uk>

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

Asia Tel: + 65 325 6018 • Fax: + 65 223 0372

