

Crocus ADM 2P



The Crocus ADM 2P (Add and Drop Multiplexer with 2 modular Ports) is part of the universal Crocus access solution, and offers a flexible and modular approach for interface conversion and Time Division Multiplexing (TDM).

CROCUS ADM 2P

The unit is equipped with 2 fixed (F)E1 G.703 interfaces and 2 slots for user-selectable plug-in interfaces. The main application for the equipment is the use as a dual port Nx64k multiplexer with (F)E1 G.703 output and an additional add-and-drop FE1 G.703 interface (figure 1).

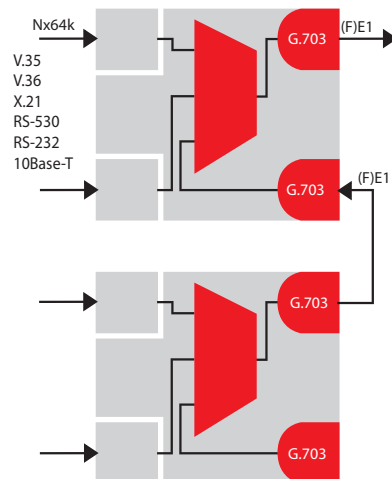
This add-and-drop interface can be used for stacking the cards and creating a multiplexer with an arbitrary number of Nx64k input ports.

Because the core of the equipment supports full cross-connect functionality, rather than only multiplexing, it is also possible to use the equipment as interface converter (Figure 2 and 3) or as a time slot re-organiser, when used between the fixed G.703 interfaces (figure 4).

The equipment comes as a card for mounting into the CN4 range of cardnests. Depending on the selected cardnest, a rackmount or desktop solution can be created.

The unit is designed for integration into demanding network environments and can be controlled by a complete set of network maintenance and management tools.

Figure 1: Stackable TDM Multiplexer (2 cards stacked)



FEATURES AND BENEFITS

- Modular stackable Nx64k multiplexer
- G.703 (F)E1 output and add-and-drop interface
- Nx64k field-exchangeable serial or 10/100 Base-T interfaces

Figure 2: NX64K to G.703 FE1 Interface Converter

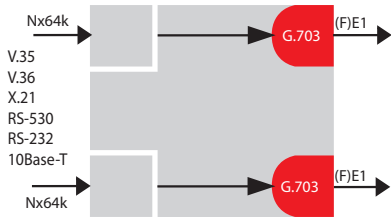


Figure 3: NX64K Interface Converter

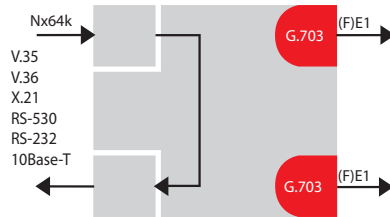
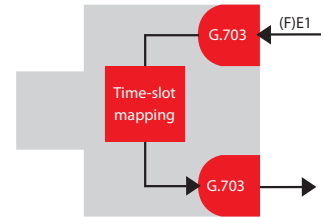


Figure 4: G.703 Time-Slot re-organiser



CROCUS ADM 2P SPECIFICATIONS

Fixed G.703 E1 interfaces

- Quantity: 2
- User speed: (F)E1
- Connector:
 - 120 Ohm balanced RJ45 connector
 - 120 Ohm balanced terminal block connector
- Applicable standards: ITU-T G.703, G.704, G.736, G.732, I.431, CRC-4 insertion
- Jitter performance: ITU-T G.823
- Nominal line data rate: 2048 kbps
- Transmit level: 0dBm
- Receiver sensitivity:
 - 15 dBm (short haul mode)
 - 36 dBm (long haul mode)
- Line code:
 - HDB3
 - AMI (short haul mode only)
- Performance monitoring: G.704 CRC-4 (configurable)
- The two G.703 interfaces are automatically interconnected on power fail or self-test failure

Modular interfaces

- Quantity: 2
- Data mode: DCE
- Available modular serial interfaces: V.35, V.36, X.21, RS-530, RS-232, G.703/G.704
- Available modular Ethernet interfaces: IP router 2M, IP router 10M
- User speeds: Nx64 kbps (N=1..31)

Management interface

- Synchronous High speed bus: RJ45 on CN4 card nest
- Console port: 9600 bps, asynchronous, 8N1, SubD 9-pin ATWIN, TMA, CLI
- Alarm contacts: Major, minor (See CN4)
- Flash memory
- Insertion/extraction of management channel in G.703 time-slot 0

Internal cross-connect functionality

- Non-blocking
- Any arbitrary combination of 64 k time-slots
- Compliant with ETSI ETS 300 010-1 and ETS 300 010-A

Station clock interface (on card nest CN4)

- Nominal rate: 2048 kbps
- Line code: HDB3
- Line connection: 120 Ohm balanced RJ45 connector

Clocking schemes

- External transmit clock (station clock)
- Transmit clock slaved on E1 receive clock from ports 1...2
- Internal transmit clock
- Fallback to other clock source in case of absence

Front panel indicators

- General PWR: Power
- For each fixed E1
 - TST: Test indicator
 - ERR/AIS: AIS (Alarm Indication Signal)
 - RAI (Remote Alarm Indication)
 - Local Configured Alarm
- For each modular intf.
 - 103/TXD: Transmit data (input)
 - 104/RXD: Receive data (output)

Mechanical data (H x d x w)

- Dimensions: 25 x 335 x 262 mm

Power

- 48 Vdc or 230 Vac, 7.2 W max

Sales Code

- > 171294 Crocus ADM 2P CV
- > 143666 Crocus V35 Intf
- > 142199 Crocus V36 Intf
- > 142200 Crocus X21 Intf
- > 161611 Crocus RS530
- > 177455 Crocus Router 10M Intf
- > 175254 Crocus G.703 Intf

