

# CROCUS E3 MUX

> THE CROCUS E3 MUX IS PART OF THE CROCUS TDM ACCESS SOLUTION AND OFFERS A COMPREHENSIVE SOLUTION FOR THE CONCENTRATION OF UP TO SIXTEEN 2 MBPS E1 BASED TRAFFIC STREAMS ONTO A SINGLE 34 MBPS E3 CONNECTION.

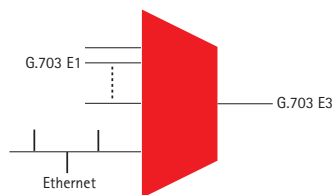
The operation is based on a two-stage concentration mechanism. In a first stage, 4 E1 channels can be concentrated onto an 8 Mbps internal E2 circuit. The second stage concentrates 4 of these E2 circuits onto a 34 Mbps E3 circuit. Each E2 circuit can accept either a quad E1 module or a 10/100Base-T module with integrated bridge or router functionality operating at 8 Mbps. This modular design allows to scale the number of E1 input circuits with the needs of the end-user, and allows the combination of the E1 data with Ethernet based traffic.

The equipment comes as a card for mounting into the CN4 range of card-nests. Depending on the selected card-nest, a rack-mount or desktop solution can be created. The card has an on-board SNMP agent, and supports directly TELNET, PING and TFTP through an integrated 10Base-T connection.

The unit can also be configured through the free Telindus Maintenance Application (TMA), which also gives comprehensive and visual information on the status and statistics of the Crocus E3 MUX.

One of the important applications is situated in the concentration of 2 Mbps based services.

▼ MULTIPLEXING E1 CIRCUITS AND ETHERNET INTO E3



For this purpose, the Crocus E3 MUX can be combined with the cross-connect and different high-speed modem cards in the Crocus range.

The global access solution is presented as a compact single shelf solution with integrated network management facilities.

## FEATURES & BENEFITS

- > E3 MULTIPLEXER WITH UP TO 16 E1 INPUT CIRCUITS
- > INTEGRATES SEAMLESSLY IN CN4 PRODUCT RANGE
- > INCLUDES FREE MAINTENANCE SOFTWARE
- > ETHERNET PORT FOR DIRECT SNMP AND TELNET SUPPORT

### INPUT MODULES

- Number of input Modules: 4
- > Types of input Modules (field exchangeable)
  - Quad E:
    - > 4x G.703 E1 circuits
    - > Nominal line data rate 2048 kbps
    - > Line code HDB3
    - > Line connection 120 ohm balanced RJ45 connector DTE
  - Router:
    - > 10/100Base-T module with integrated router
    - > IEEE 802.3 and 802.3u compatible

### MULTIPLEXING CHARACTERISTICS

- > E1 characteristics: ITU-T G.703, G.704, I.431, CRC-4 insertion
- > E3 characteristics: ITU-T G.703, 75 ohm BNC connector
- > E1 to E2 internal multiplexing: ITU-T G.742
- > E2 to E3 multiplexing: ITU-T G.751
- > Global jitter performance: ITU-T G.823

### STATION CLOCK INTERFACE (ON CARD NEST CN4)

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

### MANAGEMENT INTERFACES

- > Synchronous High speed bus CN4 card nest backplane connection for use with Orchid 1003 LAN controller card
- > Console port 9600 bps, asynchronous, 8N1, SubD 9-pin ATWIN, TMA, CLI, TML
- > Local RJ45 - Ethernet connector
  - > Compliant with IEEE 802.3 10Mbps HDX Ethernet
- > Direct connection of TMA, TMA for HP OpenView, Telnet, SNMP, TFP, TMA CLI
- > Alarm contacts - Major, minor (See CN4)
- > Password protected

### E3 CLOCKING SCHEMES

- > Internal clock: free running
- > Station clock: from CN4 chassis
- > Slave/Receive: recovered from E3 receive data
- > A fallback mechanism to internal clock will occur in case the configured clock is not present.

### FRONT PANEL INDICATORS

- > PWR: Power
- > LNK: LAN link condition
- > For each E2 input slot and E3 output:
  - > TST: Test indicator
  - > ERR: Error condition
  - > LOS/LOF: Loss Of Signal/Loss Of Frame-alignment

### TESTS

- > External loop-back (Loop3) for each individual E1 line
- > Internal loop-back (Loop4) for each individual E1 line
- > External loop-back (Loop3) for E3 line
- > Internal loop-back (Loop4) for E3 line

### MECHANICAL DATA (H X W X D)

- > 50 x 335 x 262 mm

### POWER

- > 48Vdc or 230Vac, 10W max

### SALES CODES

- > 171293 Crocus E3 Mux CV BU

### SALES CODES: INTERFACES

- > 163369 4E1 intf. crocus
- > 177455 Router intf 10M crocus

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