

CC-1063

Digital Cross Connect Platform

Description

CC-1063 takes up to three low speed slots and one high speed slot for traffic signals. Low speed cards can be 21-E1 or 28-T1. High speed card can be STM1 or OC3. With any combination of cards, the CC-1063 has full DS0 cross-connect capability built inside.

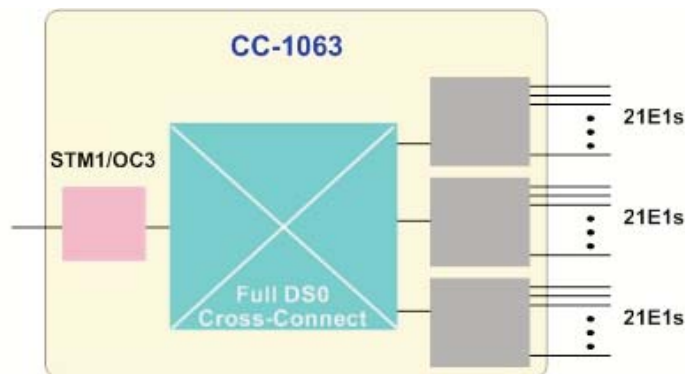
It can be used as a 63 E1 DS0 cross-connect, using either input streams from the three 21-E1 plug-in cards, or the input stream from the single STM1 plug-in. Similarly, 28-T1 plug-in or OC3 plug-in can be used.

It can also be used as a multiplex to combine 63 E1 from the low speed inputs into a single STM1/OC3 stream. Similarly, 84 T1 can be combined into an OC3 stream. Finally, with a mix of 21-E1 and 28-T1 cards, it can be used as an E1 to T1 converter.

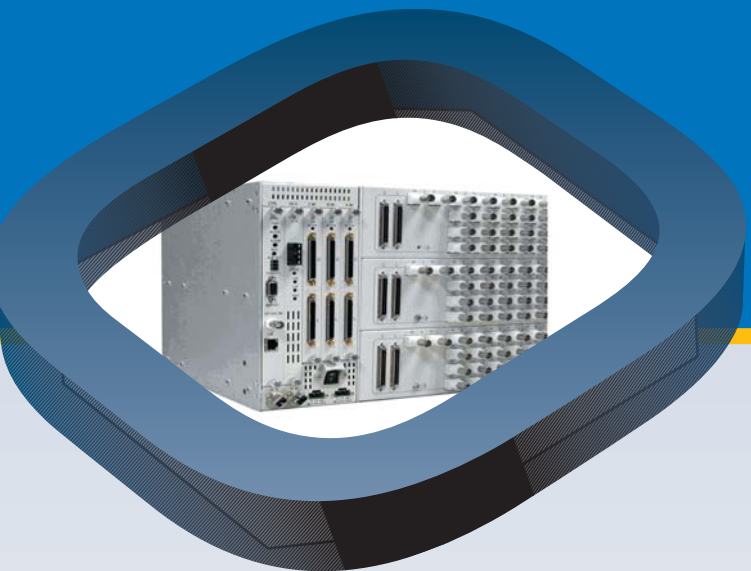
Full control and diagnostics could be supported by using a VT100 terminal connected to the console port, Ethernet, Telnet and SNMP.

Data from any port, or any time slot of that port, can be channeled to any port or any time slot of any other port, whether from low speed cards or high speed card. CC-1063 is available in two physical configurations. In the 10.5" (6U) high by 4" box the E1/T1 interface is a pair of 68-pin SCSI connector.

Applications



As a Multiplex plus Cross Connect for 63 E1s to STM1/ OC3

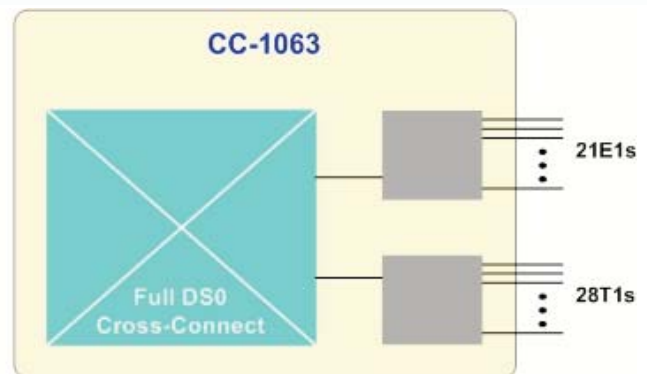


In the 10.5" high by 19" box the E1/T1 interface can be BNC, RJ48, or others as desired, which can be ordered one for each 21E1/ 28T1 plug-in.

The main chassis has one slot reserved for the main controller board, one slot reserved for the high speed card, and three slots reserved for 21E1/28T1 plug-in cards

Features

- ✓ Three 21E1/28T1 plug-in slots.
- ✓ One STM1/OC3 plug-in slot.
- ✓ DS0 Digital cross-connect amongst all plug-in ports, low speed or high speed.
- ✓ Console port and Ethernet port and connection to SNMP and Telnet.
- ✓ LED indicators for CPU, OC3/STM1, High Density E1, and Power Module.
- ✓ Redundant power supply
- ✓ In-band management, out-band management



As a 21 E1s to 28 T1s Converter

CC-1063

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Product Specification

Time Slot Interchange

Less than 700s delay
One active map, 3 user-stored maps

Voice Channel Conversion

CAS signaling transparent

Performance Monitor

Performance Store The last 24 hours performance in 15-minute intervals

Monitor Registers Line, user, and remote site

Performance Reports Date & time, error second, degraded minutes, unavailable second, bursty error second, severely errored second, controlled slip second, and loss of frame count

Alarm History Date & time, alarm type(i.e. master clock loss, RAI, AIS, LOS, BPV, ES, CSS)

Threshold Bursty seconds, severely errored second, degraded minutes

Ethernet

Connector RJ45
Protocol Telnet and embedded SNMP

Diagnostics Test

Loopback Line loopback, payload loopback and local loopback

Network Line Interface (21 E1)

Line Rate 2.048 Mbps 50 ppm
Line Code AMI/HDB3
Input Signal ITU G.703
Jitter ITU G.823
Output Signal ITU G.703
Framing ITU G.704
Connector Two SCSI 68 connectors (Used 68-pin on first connector and 16-pin on second.)
Electrical 75 coax/120 twisted pair

Network Line Interface (28 T1)

Line Rate 1.544 Mbps 32 ppm
Line Code AMI/B8ZS
Input Signal DSX-1 0dB to -30dB w/ALBO
Jitter AT&T TR 62411
Data Rate n * (56 or 64) Kbps (n=1-24)
Surge FCC Part 68 Sub Part D
Framing D4/ESF

Connector Two SCSI 68 connectors (Used 68-pin on first connector and 44-pin on second.)
Output Signal DSX-1 w/0, -7.5, -15 dB LBO
Pulse Template AT&T TR 62411

OC3/STM1 Interface

OC3/STM1 Optical Transmitter 1320 nm

RMS Max. 6 nm
Wavelength Max. 1350 nm, Min. 1280 nm
Output Power Min. -12 dBm
Extinction Ratio Min. 10 dB
Connector SC/PC

OC3/STM1 Optical Transmitter 1550 nm

RMS Max. 6 nm
Wavelength Max. 1590, Min. 1520 nm
Output Power Min. -12dBm
Extinction Ratio 10db
Connector SC/PC

OC3/STM1 Optical Receiver

Sensitivity Max. input power 0 dBm, Min. input power -34dBm
Connector SC/PC

Front Panel

LED for power supply: POWER
LED for CPU: each for POWER, ACTIVE, and ALARM
LED for OC3/ STM1: one for ACTIVE, POWER, and ALARM, each for LOS, LOF, and TEST
LED for High Density E1: one for ACTIVE, POWER, and ALARM

Physical/ Electrical

Dimensions For 19" box: 19 x 10.25 x 11 inch ; 431 x 266 x 279 mm (WHD)
For 4" box: 4 x 10.25 x 11 inch ; 99 x 266 x 279 mm (WHD)
Power Dual/ Single -48V DC, 45 Watts
Temperature 0-50°C
Humidity 0-95%RH (non-condensing)
Mounting Desk-top stackable, 19" / 23" rack mountable

Alarm Relay

Alarm Relay, Fuse alarm, and Performance alarm

