



BLACK BOX[®]

NETWORK SERVICES

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XLINKM



Cross connect and manage up to 8 E1 lines

Key Features

- ▶ **8 Full E1/
Fractionalised E1 ports**
- ▶ **Local and Remote
management**
- ▶ **Embedded SNMP
Agent, Telnet Server
and FTP Server**
- ▶ **State Indication LED's
for each E1 port**
- ▶ **Flexible Timeslot
allocation**
- ▶ **Local and Remote
loopbacks for each E1
port**

The new Black Box XLinkM is a multipurpose access device providing 8 E1/FE1 ports at rates up to 2 Mb/s with DS0 digital cross connect capabilities at a 64 Kb/s time slot level. The XLinkM is easily installed and all configuration and maintenance tasks can be done remotely using its embedded SNMP Agent or Telnet server. The XLinkM can be used in different ways and covering multiple applications as follows:

Digital Cross Connect (DXC)

The Black Box XLinkM can be used as an 8 port digital cross connect system (DXC) allowing any 64 Kb/s DS0 Time Slot connection between any in and out E1 link. Fixed data patterns can be allocated and configured in this device and also management traffic (NMS) to remote equipment connected

(valid for this range of products only)

Traffic Grooming

Using the new XLinkM, different traffic can be groomed. For example grooming traffic coming from different Base Stations (BTS) to the Mobile Switching Centre (MSC), can allow the optimisation of E1 links use between several switching and access network devices.

XlinkM can also be used as an access device to concentrate all traffic from several remote terminals, at nx64 Kb/s rates, coming from the same or different customers, as it is shown in diagram on page 2 (MTU/MDU Head end).

In this environment, this device can deliver traffic from one or several E1 links, coming from the access provider (LMDS,

CLECs or cable operator) between the other available FE1 links at nx64 Kb/s rates depending on end user requirements. In addition to this, using Black Box converters family InterLink as user terminals, the operator can offer data services (Frame Relay, PPP, ...) through different interfaces (V.35, X.21, 10BaseT). User bandwidth allocation can be remotely arranged as well as any other configuration parameters using a Telnet session or VAYRIS SNMP management software, ViewLink.

The XlinkM is designed as a standalone unit that can also be 19" rack mounted. Universal 100/240 AC as well as 48 DC (on demand) power supplies can be supported.

The Black Box XLINK is an effective and flexible solution for many access and cross connect applications. Each individual 64K timeslot can be routed to any

other 64K timeslot on any other E1 port making the unit ideal for all your traffic grooming applications. Each E1 port fully complies to ITU G.703 / G.704 standards, and provide access to each timeslot individually.

The unit can be managed locally by the console port, or remotely across an IP network using Telnet, FTP or SNMP (MIB available), all of which are built in.

There are LED's on the front of the unit to display the status of

each E1 port, and diagnostics can be performed via the Local Analogue Loopback (LAL) and Remote Digital Loopback (RDL) available to each individual E1 port

The two major applications are Digital Cross Connect (DXC) and Traffic Grooming

Digital Cross Connect (DXC)

XLINKM can be used as an 8 port digital cross connect system (DXC) allowing any 64K DS0 Time

Slot connection between any in and out E1 Link. Fixed data patterns can be allocated and configured in this device.

Traffic Grooming

Using XLINKM, different traffic can be groomed. For example, grooming traffic between different Base Stations (BTS) to the Mobile Switching Centre (MSC) can allow the optimisation of E1 links between several switching and access network devices

XLINKM can also be used as an access device to concentrate all traffic from several remote terminals, at n x 64K rates, coming from the same or even different customers. In this environment, this device can deliver traffic from one or several E1 links, coming from the access provider between the other available FE1 links at n x 64K rates depending on each end user requirement.

Specifications

E1 Interface

As per ITU G. 703/G. 704

Frame Format: FAS/NFAS, PCM21 or PCM31C

Jitter: ITU G832

Line Code: HDB3 or AMI

Rate: 2.048Mbps +/- 50ppm

Clock Internal: /Slave

Connectors: RJ45

Impedence: 120 ohm

Diagnostics

Local (LAL) and Remote (RDL) loopson each individual port, PRBS at DS0 Time Slot level

Management

Local: 1Console Port (RS232/V.24

(Set to 9600bps, 8 data bits, 1 stop bit, no parity) presented on a DB9 way female, Universal Local Manager (Windows)

Remote: REEmbedded SNMP Agent, Telnet presented on an RJ45 connector, 10/100 Mbps Ethernet Base-T

Power

Internal: 6100-240 VAC or -48VDC
Other options available. Ring Technical Support for details

Dimensions

Width: u340mm x Depth: 274mm x Height: 60mm

Weight: 1.5 kg

Operating Temperature

0-60°C non-condensing

Ordering Information

ITEM

CODE

8-port Digital Cross Connect Mains Power ...MXU800CX

8-port Digital C ross Connect - 48 VDCMXU800CXDC