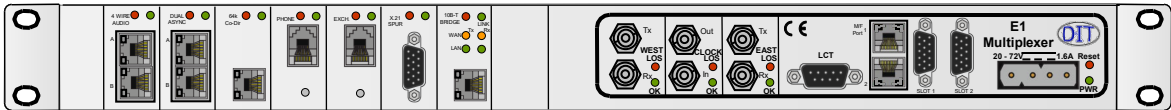
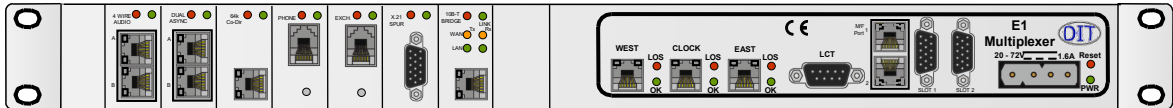


E1 Drop & Insert Multiplexer



OR



- 30 Channel capacity with flexible mapping Using Service Delivery Modules
- Voice and Digital Data Services
- LAN-to-LAN Bridging
- Drop and Insert Mode
- Comprehensive Service Protection Options
- User configurable Clocking options
- Configuration options for Point to Point, Point to Multipoint, Broadcast and Omnibus
- Remote Management
- Status Inputs/Outputs for external Alarms and Controls supported
- LCT Port for Local Configuration and Diagnostics
- SNMP Management Capability
- Comprehensive Alarm Mapping
- 75 ohm BNC or 120 ohm balanced E1s
- All Front Access Connections
- 1U Suitable for 19" and ETSI rack mounting
- Low Power

Background

The D&IT E1 Multiplexer has been developed specifically to meet the current demands of enterprise communications networks for flexible and cost effective implementations. It provides a comprehensive set of market leading features and facilities ensuring compatibility with and interworking between legacy and IP based network technologies. With integral resilient traffic protection facilities coupled with Drop/Insert functionality, the E1 Multiplexer is ideally suited to Public Access Networks, Transport (Road and Rail) and Utilities markets.

This multiplexer is increasingly the multiplexer of choice for a number of UK and overseas private and public service providers.

Product Overview

The E1 Multiplexer operates at a primary rate of 2.048Mbps. E1/Clock terminations available as either BNC 75 ohm or 120 ohm balanced.

The E1 Drop-Insert Multiplexer provides a range of audio, voice telephony and digital data services that can be managed locally (via LCT) or remotely by the PC-GX Network Management System or a 3rd Party SNMP Manager. Alarm reporting and control of co-sited equipment is supported in addition to providing comprehensive E1 multiplexer management. Service protection facilities can be configured so that priority services are protected against network and equipment failures.

The equipment supports low speed asynchronous V.24 and high speed synchronous V.35, G.703 data interfaces. In addition the equipment also supports ISDN, FXO, FXS, 2/4 wire E&M and Ethernet.

Application Profiles

Service applications include:

- Providing POTS service from a central office switch
- Providing 4W + signalling for 4W E and M emulation or 4W + radio control applications
- Interconnecting client terminals, computer systems and terminal servers
- Interconnecting Local Area Networks (LAN)

Voice Services

The options available support a full range of voice service deliveries, with user configurable speech compression algorithms, including 64k PCM for general applications and ADPCM (16k/24k/32k) for applications where bandwidth may be at a premium.

Data Applications

Point to point and point to multipoint service configurations can be configured to support a range of data services for synchronous and asynchronous data. These services are supported by the flexible D&IT bit mapping feature which allows efficient use of the available bandwidth.

Geographically separate LANs can be interconnected using Ethernet Bridging facilities.

Service Delivery Modules

The following Service Delivery Modules (SDM) are currently available:

- Dual Asynchronous Data (300 – 38.4 kbaud)
- Dual 4 Wire Audio (PCM and ADPCM)
- Engineers Order Wire (EOW - PCM and ADPCM)
- Single Asynchronous Data (300 – 38.4 kbaud)
- Single 2 wire UK POTS (FXS)
- Single 2 wire UK Exchange (FXO)
- 64K G.703 (Co- directional)
- X.21 synchronous data (N x 64k)
- 10 Base T (Ethernet Bridge via N x 64k)

Related Information

Further application details are available on the separate Application Profiles datasheet for the E1 Multiplexer.

Further details on the SDMs are available on the separate product profile datasheet.

SPECIFICATION

Enclosure	1U (1.75") Aluminium ventilated enclosure
Rack Practice	Suitable for 19" and ETSI rack mounting
Depth	185 mm plus 35 mm stand-back
Weight	1.5 kg approx
Connectors	
E1/Clock Ports	BNC (75 ohm unbalanced) or 120 ohms balanced
LCT	1 x 9-way 'D' male (RS232 only)
Multi-function Port	2 x RJ45 (RS232 or RS422)
Power	4-way Slim-line Trident
Power Supply	24V or 48V nominal (20V to 68V, 72V without damage), positive or negative ground permitted
Power Consumption	Basic Unit (no SDM modules): < 5 W SDMs: 0.3 to 1 watt depending on SDM type
Status Indication	LEDs for status of power/watchdog (OK, Fail), East/West E1 (OK/loss of sync), I/C Clock (selected, loss of signal) Additional LEDs are provided on individual Service Delivery Modules to indicate status
Service Delivery Modules	8 slots available – see summary information above for SDM types
I/O Modules	Physical provision for two plug-in modules (PIMs)
Environmental	Meets the appropriate requirements of EN300-019 EEE producer registration number WEEE/HH0060TU
EMC	Meets the appropriate requirements of R&TTE under directive 1999/5/EC and EMC Directive 89/336/EEC
Safety	Meets the requirements of LVD 73/23/ECC (EN 60950)

