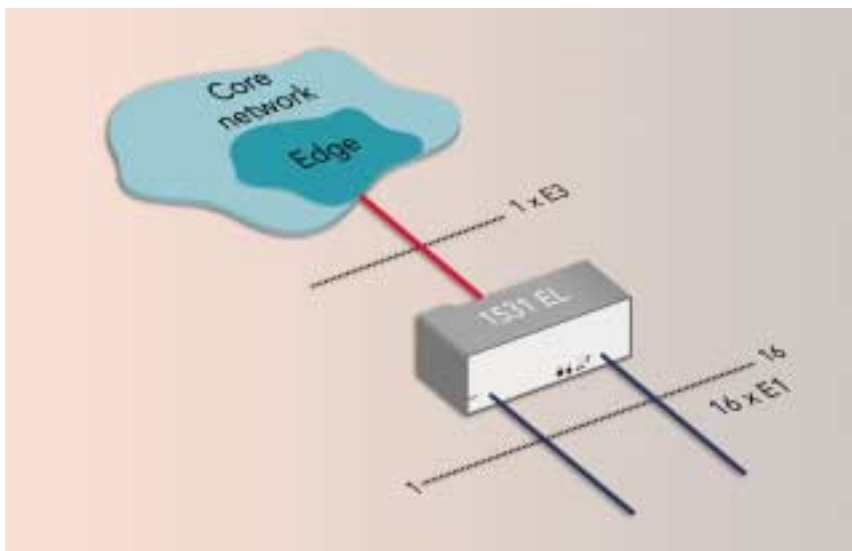


1531EL

E1 to E3 Multiplexing unit



- ▼ 16x2 Mbit/s: G.703
- ▼ Individual configuration of each of the 2 Mbit/s interfaces
- ▼ SW download for upgrading
- ▼ 34 Mbit/s: G.703
- ▼ Compact and cost effective design

The 1531 EL is intended for multiplexing of 16x2 Mbit/s connections into a 34 Mbit/s connection.

The demand for multiplexing the classical interfaces E3 and E1 is generated from an awareness of reducing costs. The investment in a multiplexer is most often justified by less interfaces used and the reuse of existing E3 infrastructure.

Applications

Because of the great variety of equipment fitted with E1 interfaces, the system is suitable for a number of applications, such as mobile, public and private network installations.

Common for these applications is the need for aggregation/ multiplexing.

Each of the 16x2 Mbit/s can be configured independently and the configuration options are:

- ▼ Transparent mode, G.703
- ▼ Unequipped

Installation

A 1531 EL unit is a stand-alone multiplexer offering standard interfaces.

The Alcatel 1531 EL is available in three different mechanical variants:

- ▼ S9 single plug-in line card for mounting in a 1531FL compatible central office subrack
- ▼ Customer Premises equipment (CPE), a low profile (3U) unit for mounting in 19" racks
- ▼ Customer Premises equipment (CPE), a low profile (3U) unit for mounting in 600mm/ETSI standards racks

The 1531 subrack has twelve slots and can accommodate up to twelve 1521 FL S9 (all releases) or up to six 1531 EL or 1531 FL S9 type of linecards, or a mix of all.

Features

The 1531 EL supports several CRC/4 configurations.

It also offers dry loop alarm output, indicating urgent or non-urgent alarm conditions.

Software download

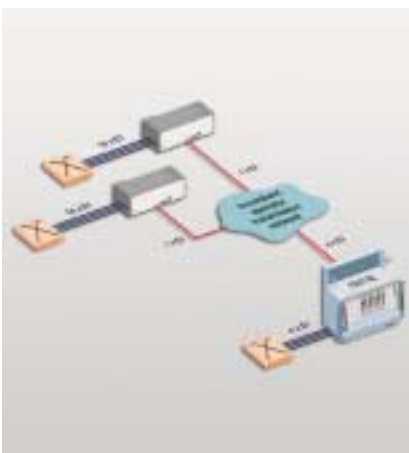
A software download feature is available which allows for upgrade of the unit.

Supervision

Local alarm indications and alarm outputs are available.

Quality and alarm information for the 1531 EL terminal is collected and processed, it can be read from a PC with a VT100 emulator such as a Hyperterminal.

HHT emulation software for PC is also available.



Technical Specifications:

Electrical Interfaces

2 Mbit/s G.703

Bitrate	2048 kbit/s ± 50 ppm
Line code	HDB3
Impedance	75 Ohms unbalanced, 120 Ohms balanced
Connector	50 pin D-sub, BNC, RJ45
Jitter	ITU-T Rec. G.823 and G.921

34 Mbit/s

Bitrate	34 368 kbit/s ± 20 ppm
Line code	HDB3
Impedance	75 Ohms unbalanced
Connector	BNC
Jitter	ITU-T Rec. G.823 and G.921

Power

Plug-in board	- 40 V to - 72 V DC
CPE	40 V to - 72 V DC
CPE power unit	205 - 255 V AC (50 Hz)
Power consumption	<16 W

Environmental Conditions

EMC	EN 55022 and EN 55024
Safety	EN 60950
Temperature range (operation)	- 5 °C to +45 °C, according to ETS 300 019, class 3.2
Temperature range (storage)	- 5 °C to +55 °C, according to ETS 300 019, class 1.2
Temperature range (transportation)	- 40 °C to +70 °C, according to ETS 300 019, class 2.3

Dimensions (H x D x W) and weight

S9	233 x 160 x 51 mm, 0,6 kg
CPE	133 x 230 x 432 mm, 0,6 kg

MTBF > 42 years

Order Information 1531 EL

1531 EL, E1/E3 Multiplexer S9
1531 EL, E1/E3 Multiplexer, CPE, ETSI
1531 EL, E1/E3 Multiplexer, CPE, 19"
1531 CPE power unit, 220 V / 48 V
1531, S9 subrack, 19"
1531, S9 subrack, ETSI

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