



Alcatel 3630 MainStreet PRM Primary Rate Multiplexer | Release 5.3



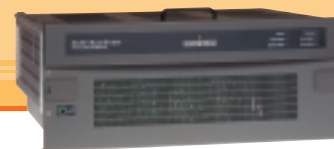
The Alcatel MainStreet access portfolio is feature-rich and comprehensive, comprising multiservice access platforms (MAPs), integrated access devices (IADs) and network termination units (NTUs). With over 250,000 nodes deployed worldwide, it is considered the most successful digital overlay platform ever built.

The Alcatel 3630 MainStreet Primary Rate Multiplexer (PRM) is an integrated access device that serves as a customer premises gateway to multiservice networks. The Alcatel 3630 MainStreet PRM can also be used as a managed network termination unit on the customer's premises.

The Alcatel 3630 MainStreet PRM is a high performance, compact, intelligent T1 (1.544 Mb/s) or E1 (2.048 Mb/s) multiplexer that terminates up to 30 voice or data circuits. It has two interfaces and supports protection switching and drop-and-insert applications.

The Alcatel 3630 MainStreet PRM digitizes analog transmissions and integrates voice and data circuits for transmission on a primary rate link. The HDSL module enables E1 transmission rates over the local copper loop without the need for repeaters or generators. The manual ring down (MRD) module (North America) or GEN-GEN module (Europe) supports voice interfaces that are typically used by financial institutions.

Intelligent, high performance access that terminates up to 30 voice or data circuits



Technical Summary

Interfaces

Flexible interfaces

The Alcatel 3630 MainStreet PRM can accommodate:

- > A maximum of 30 2- or 4-wire voice terminations
- > V.24, TIA/EIA-232 terminations at speeds up to 38.4 kb/s
- > Up to 16 X.21 or V.35 terminations at speeds up to 1,920 kb/s
- > 24 OCU-DP ports for access to DDS services
- > Up to 30 64 kb/s codirectional (G.703) terminations, or 16 2B1Q terminations for Alcatel 275x MainStreet Data Termination Unit (DTU) connectivity

T1 interfaces

- > D4 and ESF compatible
- > Bit rate 1.544 Mb/s (± 25 ppm)
- > B8ZS or JB7 zero code suppression options
- > Clock stability ± 25 ppm (Stratum 4)
- > Integral CSU available

E1 interfaces

- > Compatible with applicable sections of ITU-T Rec. G.703, G.704, G.711, G.732
- > Bit rate 2.048 Mb/s (± 25 ppm)
- > HDB3 coding
- > 75/120 Ω line impedance options

Termination Interfaces

- > FXS — Loop/ground start subscriber (LGS)
- > FXO — Loop/ground start exchange (LGE)
- > Integral ringing generator
- > Optional integral tone generation
- > E&M (Type I, II, and V; 2- or 4-wire)
- > Manual ring down (MRD)
- > 2B1Q circuits to network termination units

- > 50-pin connectors to customer circuits
- > Dual port V.24, TIA/EIA-232
- > Single port V.35 and X.21
- > Dual port OCU-DP with switched 56 kb/s support
- > Dual port codirectional module (64 kb/s G.703)

Network Termination Units

- > V.35, X.21 and V.24, TIA/EIA-232 units
- > Single twisted pair — <5.5 km (3.4 mi.), 0.4 mm (0.02 in.)
- > Synchronous data rates up to 128 kb/s (including 14.4 kb/s)
- > Asynchronous data rates up to 38.4 kb/s (including 14.4 kb/s)

Loop Signaling Characteristics

- > Maximum external resistance: 450 Ω
- > Maximum dial pulse speed: 20 pps

Maintenance

- > All parameters are software configurable
- > DTE and DCE maintenance ports
- > Multilevel password protection
- > Automatic self-diagnostics and directed diagnostics with statistics
- > Alarm storage buffer
- > Remote alarm signaling
- > Local and remote loopbacks
- > Management over X.25-based (CPSS) message system
- > Alarm contacts and sensors
- > Operational and diagnostic displays
- > Compatible with AT&T 54016 statistics over T1 ESF channel
- > Compatible with ITU-T G.821 CRC-4 statistics over E1

Physical Description

- > Height: 16.64 cm (6.55 in.)
- > Width: 43.18 cm (17 in.)
- > Depth: 45.72 cm (18 in.)
- > 48.16 cm (19 in.) rack mount
- > Occupies 5 VUs
- > Optional slide drawer
- > Optional wall-mount bracket

Operating Environment

- > 0 C to 40 C (32 F to 104 F)
- > 5% to 95% relative humidity, noncondensing

Power

- > AC 100 V to 240 V, 50/60 Hz input
- > 48 V DC nominal input
- > Maximum power consumption: 75 W
- > Ringing generator: 20 Hz or 25 Hz

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