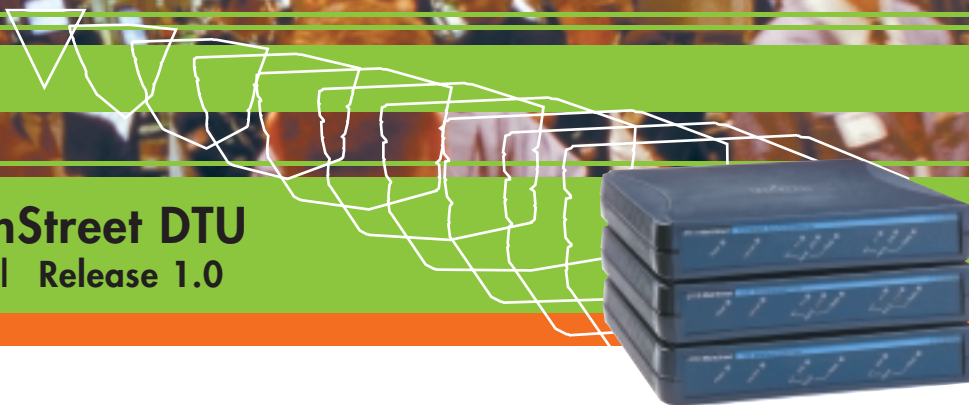




## Alcatel 275x MainStreet DTU Data Termination Units | Release 1.0



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 275x MainStreet Data Termination Units (DTUs) are used in many applications that require secure, highly reliable data such as automatic banking machines, lottery terminals and alarm monitoring applications. The Alcatel 275x MainStreet DTUs maximize performance from installed copper facilities.

The Alcatel 275x MainStreet DTUs offer an attractive alternative for providing services of up to 128 kb/s to remote sites, ideal for offering services from a central site to remote locations.

Three types of DTUs are available — the Alcatel 2751, Alcatel 2752 and Alcatel 2753 MainStreet DTUs with TIA/EIA-232 (RS-232), X.21 and V.35 user ports, respectively. All three DTUs share a common network port and can be mixed and matched on the same 6- and 12-port line cards. Subrate (<64 kb/s) data is supported and can be multiplexed onto the same DS0. This multiplexing of data allows for efficient utilization of bandwidth and real cost savings. Both the 6- and 12-port line cards can be installed in the Alcatel 3600 MainStreet and Alcatel 3600+ MainStreet Multiservice Bandwidth Managers.

This family of DTUs supports full redundancy on the network interface, the line and the DTU itself.

High performance DTUs providing secure and highly reliable services



## Technical Summary

### General

- > Fully software configurable
- > Software downloadable
- > Local or remote management
- > End-to-end path management and configuration via the Alcatel 5620 Network Manager (NM)
- > Full range of automatic and user directed diagnostics
- > Integral BERT
- > Line, port and DTU redundancy
- > Advanced line monitoring for line quality
- > Open and short detection
- > Power failure detection

### Network and Service Management

- > Full end-to-end path management and provisioning
- > Local or remote management interface through NMTI, Craft Interface or the Alcatel 5620 NM
- > Centralized alarm management with audible and visual alarm notification
- > Centralized software administration
- > Automatic discovery of equipment additions, deletions and changes
- > Extensive performance data for SLAs and billing
- > Multiple graphical displays of performance data

### Features

#### Alcatel 2751 MainStreet DTU

- > Ports: dual V.24, TIA/EIA-232
- > Connectors: DB-25
- > Physical interface: TIA/EIA-232C, CCITT V.24/28
- > Mode of operation: DTE/DCE
- > Control signals supported: RTS, CTS, ALB, RDL, DCD, DSR, DTR, RI
- > Variable character length: 9, 10 or 11 (start, data, parity, stop bits)
- > Rate adaptation: HCM

- > Synchronous data rates: 0.15 kb/s up to 64 kb/s
- > Asynchronous data rates: 0.15 kb/s up to 38.4 kb/s

#### Alcatel 2752 MainStreet DTU

- > Ports: dual X.21, TIA/EIA-449
- > Connectors: DB-15
- > Physical interface: TIA/EIA-449/442, CCITT X.21, ISO 4903
- > Mode of operation: DTE/DCE
- > Control signals supported: C, I
- > Variable character length: 9, 10 or 11 (start, data, parity, stop bits)
- > Rate adaptation: HCM
- > Synchronous data rates: 0.15 kb/s up to 128 kb/s
- > Asynchronous data rates: 0.15 kb/s up to 57.6 kb/s

#### Alcatel 2753 MainStreet DTU

- > Ports: dual V.35
- > Connectors: DB-25
- > Physical interface: CCITT V.35, ISO 2593
- > Mode of operation: DTE/DCE
- > Control signals supported: RTS, CTS, ALB, RDL, DCD, DSR, DTR, RI
- > Variable character length: 9, 10 or 11 (start, data, parity, stop bits)
- > Rate adaptation: HCM
- > Synchronous data rates: 0.15 kb/s up to 128 kb/s
- > Asynchronous data rates: 0.15 kb/s up to 57.6 kb/s

### Line Connection

- > Single twisted pair
- > RJ-45 connector
- > Transmission using adaptive echo cancellation techniques
- > D channel used for control and management of the DTU

### Physical Description

- > Height: 3.7 cm (1.5 in.)
- > Width: 19.4 cm (7.6 in.)
- > Depth: 27.0 cm (10.6 in.)
- > Weight: approximately 0.85 kg (1.8 lbs.)

### Shipping and Storage

- > -40° C to 66° C (-40° F to 150° F)

### Operating Environment

- > 0° C to 40° C (32° F to 104° F)
- > 5% to 95% relative humidity, noncondensing
- > 60 m (197 ft.) below sea level to 1,800 m (5,905 ft.) above sea level

### Product Safety

- > CSA C22.2 No. 950 (Canada)
- > UL1950 (United States)
- > TR-NWT-000063 Issue 5 (U.S. Bellcore)
- > TR-NWT-001089 (U.S. Bellcore)
- > EN 60950 (Europe)

### EMC Emission

- > ICES-003 (Class A) (Canada)
- > FCC Part 15 (Class A) (United States)
- > TR-NWT-000063 Issue 5 (U.S. Bellcore)
- > TR-NWT-001089 (U.S. Bellcore)
- > EN 55022 (Class B) (Europe)
- > EN 60555 (Europe)
- > EN300386

### EMC Immunity

- > ANSI C62.41 (AC power surge) (U.S.)
- > TR-NWT-000063 Issue 5 (U.S. Bellcore)
- > TR-NWT-001089 (U.S. Bellcore)
- > EN 50082-1 (Europe)

### Network Attachment

- > DOC CS-03 (Canada)
- > FCC Part 68 (United States)
- > OTR001 (United Kingdom)
- > CTR14 (ONP leased lines 64 kb/s) (Europe)

### Power

- > Maximum 5.0 W
- > 110 V 60 Hz, 230 V 50 Hz
- > AC powering

[www.alcatel.com](http://www.alcatel.com)

Alcatel and the Alcatel logo are registered trademarks of Alcatel. All other trademarks are the property of their respective owners. Alcatel assumes no responsibility for the accuracy of the information presented, which is subject to change without notice. © 06 2002 Alcatel. All rights reserved. 3CL 00469 0139 TQZZA Ed.02 14562