

The 24-port asymmetric digital subscriber line (ADSL) line card is part of the Alcatel DSL product family, which offers scalable, carrier class, high speed access to the multiservice ATM backbone network. The Alcatel 24-port ADSL line card fits into the Alcatel 7350 ASAM and delivers broadband access to residential and business customers.

The 24-port ADSL line card is available in two versions, depending upon the desired maximum downstream rate. One version offers a maximum downstream rate of 8 Mb/s; the other, with a software enhancement, tips the scales at 11 Mb/s, when using Alcatel's new enhanced mode.

This additional downstream bandwidth allows operators to support high bandwidth applications, such as multiple (broadcast quality) video streams per DSL port.



Allows more than
2,200 lines to be
provisioned from
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Because Alcatel DSL products are managed end-to-end and fully integrated with the broadband network, lifecycle costs are significantly reduced. At the same time, providers can spread the cost of providing DSL access over a full range of ATM-based services, including fast Internet access, virtual private networks (VPNs), remote LAN access, and more demanding video and multimedia applications (such as video broadcast, video on demand, distance learning, video conferencing, and telemedicine).

Key Benefits

The ADSL line card provides 24 ADSL line terminations and ATM layer functions to extend the broadband network over unconditioned copper. The card allows more than 2,200 lines to be provisioned from a single node. As well, the card is fully compliant to ITU-T G.992.1 (full rate ADSL), G.992.2 (G.Lite), G.994.1 (G.hs) and ANSI T1.413 Issue 2.

Network management can be provided using the industry leading family of Alcatel network and service management products, including the powerful Alcatel 5620 Network Manager (NM), through the local management port or remotely using SNMP.

Technical Summary

Features

- ▼ Full management with the 5620 NM and the Alcatel 5740 Service Subscription Manager (SSM)
- ▼ Fixed and variable rate ADSL adaptation modes — 32 kb/s granularity
- ▼ 15-user ATM virtual circuit (VC) per ADSL port
- ▼ Support for integrated voice transport via voice over ADSL (VoADSL) or external passive POTS splitter
- ▼ Per port visual indicators
- ▼ Flexible alarm filtering mechanisms
- ▼ MIB support, including: ADSL, ATM and MIB-II

- ▼ Firmware upgradeable from the 5620 NM
- ▼ Carrier class features such as hot-insertion, card auto-detection and redundant ATM fabric connections
- ▼ Support for ILM1 auto-provisioning of ADSL CPE

Architecture

- ▼ Occupies one universal card slot (UCS) of a 7350 ASAM
- ▼ Each card supports 24 ports
- ▼ Support for up to 9 ADSL cards (216 ports) per shelf in a standalone configuration
- ▼ Support for up to 93 ADSL cards (2,256 ports) when used in a multi-shelf configuration

Traffic Management

- ▼ 15 user and 1 management VC provided per ADSL interface
- ▼ VPI or VCI connections; PVC, PVP, SVC, SVP, S-PVC and S-PVP
- ▼ Eight levels of QoS, supporting advanced applications like video over copper and VoADSL (derived audio)

Maintenance

- ▼ Power up self diagnostics
- ▼ Status LEDs on per port basis
- ▼ SSM service level customizable diagnostic test

Node, Network and Service Management

- ▼ NMTI Craft Interface
- ▼ Local or remote management interface using the 5620 NM or SNMP
- ▼ 5740 SSM

Physical Description

- ▼ Width: 26.2 cm (10.3 in.)
- ▼ Height: 52.1 cm (20.5 in.)

Operating Environment

- ▼ Operating temperature: 0 C to 40 C (32 F to 104 F)
- ▼ Storage and transport temperature range is -40 C to 70 C (-40 F to 158 F)
- ▼ 5% to 95% relative humidity, noncondensing

Product Safety

- ▼ IEC 950
- ▼ CSA 950
- ▼ UL 1950
- ▼ EN 60950
- ▼ EN 41003

EMC Standards

- ▼ Bellcore: GR-1089-CORE (EMC and Safety Generic Criteria)
- ▼ CISPR 22
- ▼ FCC Part 15 Class A
- ▼ ICES-003 Class A
- ▼ AS/NZ3548
- ▼ EN 55022
- ▼ EN 50082-1
- ▼ IC CS-03, FCC Part 68

Regulatory Compliance

- ▼ Europe: ETS300 132-1 (AC input) ETS300 132-2 (DC input); Bellcore: TR-NWT-000332 (Reliability), TR-NWT-000078 (Workmanship), GR-63-CORE (NEBS Generic Equipment Requirements)
- ▼ Worldwide: ITU-T G.992.1 (G.dmt), G.992.2 (G.Lite), G.994.1 (G.hs) and ANSI T1.413 Issue 2

Power

- ▼ 40 V to 75 V DC
- ▼ Maximum 115 W



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