

ALCATEL 7300 ASAM

Advanced Services Access Manager (ETSI Version) | Release 4.2

It takes more than high-speed Internet access to attract and retain new digital subscriber line (DSL) customers. Service providers need a single platform to offer new, revenue-generating broadband services for both business and residential customers. The Alcatel 7300 Advanced Services Access Manager (ASAM) is that platform. The Alcatel 7300 ASAM uses DSL technology to deliver high-bandwidth access and new revenue-generating broadband services over existing twisted pair copper telephone wiring.

The Alcatel 7300 ASAM meets the needs of residential users by providing the capacity for streaming video and audio and high-speed Internet access. It also meets business demands for business-quality access, virtual private networks (VPNs), and voice services.



ARCHITECTS OF AN INTERNET WORLD

With the largest installed base of DSL access multiplexers (DSLAMs) in the world, Alcatel designed the Alcatel 7300 ASAM to seamlessly integrate with existing systems. Service providers can mix the Alcatel 7300 ASAM shelves with installed shelves like the Alcatel 1000 ASAM Subscriber Access Multiplexer (ASAM). This creates a single system that delivers enhanced functionality while preserving past investments.

Technical Summary

System Capacity

- ▼ Up to 768 lines per 2,200 mm (7.2 ft.) rack with splitters
- ▼ Up to 1,152 lines per 2,200 mm (7.2 ft.) rack in splitterless shelves
- ▼ Up to 2,304 DSL lines per network interface
- ▼ NEBS Level 3 compliant

ATM Network Interface Cards

- ▼ STM-1 (155 Mb/s)
- ▼ E3 (34 Mb/s)
- ▼ DS3 (44 Mb/s)
- ▼ 4 x E1 IMA (4 x 2.0 Mb/s)
- ▼ 1,310/1,550 nanometer dark fiber
- ▼ Up to 96 MB on-board memory
- ▼ Optional 1+1 redundancy (APS/EPS)
- ▼ STM-4 upgradeable

Line Interface Cards

- ▼ ADSL – multi-standard auto-detect ADSL
 - POTS: ITU-T G.dmt
 - POTS: ITU-T G.lite
 - POTS: ANSI T1.413
 - ISDN: ITU-T G.dmt B
 - ISDN: ETSI TS 101 388
 - 24 lines per board
- ▼ ITU.T G.shdsl/ETSI SDSL
 - 24 lines per board
- ▼ Passive splitter types:
 - TBR21
 - 600 Ω impedance
 - ETSI harmonized impedance splitter (TR 101 728)
 - ISDN

- ▼ Subtending line cards
 - 4 x E1 IMA
 - E3
 - DS-3
 - STM-1
 - 1,310/1,550 nanometer dark fiber

Management

- ▼ Element management layer (EML) via Alcatel 5523 AWS Element Manager (AWS)
- ▼ Network management layer (NML) via Alcatel 5620 Network Manager (NM)
 - Connectivity via ATM network (ATM VP/VC)
- ▼ Service management layer (SML) via Alcatel 5620 DSL Subscriber Module (DSL SM)
 - Interfacing with other (legacy) operations support systems (OSSs)
- ▼ Local management via craft terminal

ATM Service Characteristics

- ▼ Supported ATM QoS classes
 - UBR
 - UBR +
 - CBR
 - rt-VBR/nrt-VBR
 - GFR
- ▼ Multi-QoS per line
- ▼ Up to 10,368 connections (PVC/SVC) per system
- ▼ Up to 16 connections (VCs) per line

Physical Specifications

Central office equipment

- ▼ ETSI dimensions
 - Standard 2,200 mm (7.2 ft) rack
 - Height: 2,200 mm (86.7 in.)
 - Width: 600 mm (23.6 in.)
 - Depth: 300 mm (11.8 in.)
 - HD Combo shelf (line cards and splitters)
 - 192 lines (16 x 12)
 - Height: 950 mm (37.4 in.)
 - Width: 600 mm (23.6 in.)
 - Depth: 300 mm (11.8 in.)
 - Maximum 2 shelves per rack
 - UD Combo shelf
 - 384 lines (16 x 24)
 - Height: 950 mm (37.4 in.)
 - Width: 600 mm (23.6 in.)
 - Depth: 300 mm (11.8 in.)
 - Maximum 2 shelves per rack
 - UD Splitterless shelf (line cards only)
 - 384 lines (16 x 24)
 - Height: 620 mm (24.4 in.)
 - Width: 600 mm (23.6 in.)
 - Depth: 300 mm (11.8 in.)
 - Maximum 3 shelves per rack
- ▼ Up to 12 shelves on a single network interface
- ▼ Supports back-to-back equipment practice
- ▼ Optional extension kit for additional 75 mm (3 in.) to ease installation

Remote equipment

- ▼ Temperature hardened
- ▼ Dual-level multiplexing architecture via remote Alcatel 7300 ASAMs
 - ▼ 120 lines per shelf
 - ▼ Connection to host via 4 x E1, E3/DS3, and STM-1
 - ▼ Height: 530 mm (20.9 in.)
 - 7-rack unit
 - ▼ Width: 482 mm (19.0 in.)
 - ▼ Depth: 300 mm (11.8 in.)
 - ▼ Maximum 3 shelves per rack

Other Characteristics

- ▼ Test bus for metallic line test
 - Integrated metallic cross connect
 - Soft connection of individual DSL lines
 - Connector for external test equipment
- ▼ 5 Gb/s backplane

Power

- ▼ Average power consumption: 1.2 W per ADSL line

Product Safety

- ▼ EN 60950 A1, A2, A3, A4, A11, Class 1 (IEC950)

For more information on the Alcatel 7300 ASAM visit www.alcatel.com/7300

www.alcatel.com/dsl

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.

© 12 2001 Alcatel. All rights reserved.

3CL 00469 0213 TQZCA Ed.01 11540

