

Adit 105

Release 1.1

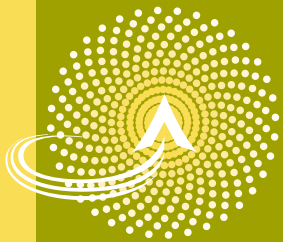
xDSL Customer Service Terminal

The new standard for integrated voice and data over DSL

The Adit™ 105 Customer Service Terminal is designed to deliver the quality and low service costs required to profitably deploy integrated services to small-business and residential customers. Service providers can deliver voice lines, data and high-speed Internet access over a single DSL line.

Compact size and optional outside plant capability deliver service where it is needed. Standard features include eight FXS analog voice ports and an Ethernet data port. Using ATM over a single SDSL network connection, the Adit 105 supports ATM Adaptation Layer 2 (AAL2) based voice services compatible with leading voice gateways, and ATM Adaptation Layer 5 (AAL5) for data and Internet access traffic.

Carrier class reliability, ease of installation, and integral management capabilities are proven Carrier Access design philosophies. The Adit 105 supports a POTS bypass during a DSL failure or complete power outage. A battery backup unit is available which can provide power for up to eight hours of uninterrupted service. Installation is as simple as mounting the unit on the wall, connecting the network facility, connecting the customer lines, and plugging in the power. Low voltage power supplies using standard telephone wire cabling to the unit simplify installation and provide safe power delivery to units mounted outdoors. Integrated analog loop testing capabilities provide a powerful tool for remote management and problem determination without truck rolls.



CarrierAccess
Access with no limits™

Features At-A-Glance:

- Enables cost-effective delivery of converged voice, data and Internet access services to small-business and residential customers
- SDSL network connections
- FXS loop start
- Integrated IP router
- Outdoor or indoor wall mount
- Carrier class reliability with POTS bypass support and optional battery backup
- Integrated analog loop testing capabilities allow remote troubleshooting of customer premises wiring problems without a truck roll
- Low voltage power supply provides safe power delivery to outdoor units using standard phone wire cabling — your installation technicians can do this
- Flexible management and provisioning access via graphical user interface GUI
- Solid-state fuseless protection

Technical Specifications

■ Components:

- Adit 105-si: SDSL indoor unit, 8-channel FXS, 10Base-T Ethernet
- Adit 105-sx: SDSL outdoor unit, 8-channel FXS, 10Base-T Ethernet
- Adit 100/200 BBV, battery backup module: eight-hour battery backup module with integrated AC converter
- Adit 100/200 AC converter

■ Management:

- Power, DSL, and Ethernet status LEDs
- Browser-based management
- Management access via remote WAN interface or local Ethernet port
- Account and password protected management access
- Integrated TFTP allows remote download of firmware directly to the unit

■ Network Interface:

- Standard telephone wire (24-26 AWG) cabling for all interfaces and power input
 - WAN Interfaces
 - SDSL: up to 2.3 Mbps ANSI T1.601 and T1E1.4/94-006 compliant
 - POTS bypass lifeline
- 10Base-T Ethernet LAN interface, CAT3 or better UTP cable
- Power connector terminates 24-26 gauge UTP cable to AC adapter or battery unit
- Solid-state overvoltage protection

■ Network Standards:

- SDSL: ANSI T1.601 and T1E1.4/94-006
- ATM UNI 3.1
- Voice over ATM AAL2
- IP over ATM AAL5: RFC 1483, RFC 2684
- Bridged over RCF 1483, RFC 2684
- PPP over ATM: RFC 2364
- Lucent Stinger DSLAM compatible
- Jetstream Voice Gateway compatible

■ Clocking:

- Derived from network DSL input or local Stratum 4 clock

■ Alarms:

- AC fail
- Battery low
- SDSL

■ Testing and Diagnostics:

- Hardware self-tests:
 - Loop closure and open signaling
 - Ring ground signaling
 - Ring trip testing
 - On-hook voltage testing
 - Off-hook current testing
 - Transmit/receive gain testing
 - Transhybrid loss testing

■ Analog line termination tests:

- Loop tip-to-ring short
- Loop tip-to-voltage short
- Loop ring-to-ground short
- Loop ring-to-voltage short
- Loop tip-to-ground short
- Loop closure and open
- Tip line open
- Ring line open

■ Power:

- 24 VDC, 1.25 A are available from one of the two accessories listed below
- Power consumption: 16W-30W
- Fuseless overcurrent protection
- Eight-hour battery backup with integrated AC converter/charger
- Single grounding lug
- 24-26 gauge UTP cable from AC adapter or battery to unit

■ Routing Features:

- Dynamic Host Configuration Protocol (DHCP)
- NAT/NAPT
- TFTP support for software feature upgrades
- Router: RIPv1, RIPv2, static routes

■ Voice Parameters:

- FXS Loop Start
- Loop range: 450 ft. including telephone
- Ringing: 60 VRMS, 10 REN max, 5 REN per line max
- Impedance: 600 Ω + 2.16 μ F, 900 Ω + 2.16 μ F
- Gain/Loss: +6 dB to -12 dB in 1 dB steps

■ Accessories:

- AC converter
- Battery backup unit with integrated AC converter/charger

■ Regulatory Approvals:

- FCC Part 15, Class A
- FCC Part 68
- NRTL safety listed: UL 1950, CSA
- NEMA 3R compliant outdoor enclosure

■ Physical:

- Outdoor or indoor wall mount
- Height: 17.5 in. (44.45 cm)
- Width: 8.33 in. (21.17 cm)
- Depth: 4.33 in. (11.07 cm)

■ Environment:

- Temperature: -40° to 122°F (-40° to 50°C)
- Maximum operating altitude: 10,000 ft. (3,048 m)
- Maximum non-operating altitude: 40,000 ft. (12,192 m)
- Relative humidity (non-condensing) range: 5% to 95%



Product Ordering Information

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