Total Access 604/608

Fixed-Port Integrated Access Device

Product Features

- Seamless voice and data integration over DSL or T1

- Up to eight analog, Carrier Class POTS interfaces

- TDM, ATM and Frame Relay support

- Compatible with industry leading DSLAMs and Voice over Broadband gateways

- IP router for integrated data support and Internet access

- V.35 Nx56/64 DTE interface

- Rugged metal case

- Optional Battery Backup

- Industry-leading 10-year North American warranty

With millions of small to medium sized enterprises existing today, the requirement for carriers to provide integrated voice and data solutions is growing at a rapid rate. ADTRAN™ delivers with the Total Access® System of Multiservice Access Platforms and Integrated Access Devices. The Total Access 604 and Total Access 608 are two cost effective, fixed-port, integrated access devices designed to support either TDM or ATM. These systems offer enterprise users and integrated communications providers, such as CLECs, ILECs, and ISPs, a means to offer combined voice and data traffic over a single network interface terminating at the customer's premises.

The Total Access 604 provides four fixed analog voice interfaces, while the Total Access 608 provides eight fixed analog voice interfaces. These analog FXS interfaces support the stringent design and full feature set required by today's carriers. Both systems provide a built-in IP router and an integrated Nx56/64 V.35 port for synchronous data applications, allowing the customer to combine a broad variety of voice and dataservices into a single platform. The Total Access 604 and 608 are compatible with industry leading VoBB Gateways. The FXS interfaces support all popular CLASS™ features.

Built with the carrier in mind, the Total Access 604 and 608 are housed in a rugged metal case and provide the flexibility needed for quick turn-up in harsh environments. Wall and desktop mounting options are available for ease of installation. An optional ADTRAN battery backup system is available for added security.

The integral IP router provides a powerful suite of performance and security features. The Total Access 604 and 608 offer multiple PVC configurations for simultaneous access to the corporate network and the ISP. Supporting NAPT and packet filtering, the Total Access 604 and 608 secure the corporate network from unwanted intrusion. All configuration options, testing parameters, and passwords are accessed through an easy-to-use VT100 terminal interface or a TELNET session using the 10/100BaseT port.

Using local or remote inband management, the service provider can turn features, functions, and access ports on and off. For network access, the Total Access 604 and 608 have a single T1, ADSL, SDSL, or SHDSL interface that is compatible with today's industry leading DSLAMs. In addition to all of these features, the Total Access 604 and 608 are backed by an industry-leading 10-year warranty and ADTRAN's 24-hour technical support.

ADTRAN®

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TL 9000
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Product Specifications

Network Interface
- **Physical Interface:** RJ-48C

T1
- **Line Rate:** 1.544 Mbps +/- 75 bps
- **Framing:** D4 (SF)/ESF, AT&T 54016, ANSI T1.403
- **Line Code:** AMI / B8ZS

ADSL (ITU G.992.1)
- Up to 8 Mbps downstream/Up to 1 Mbps Upstream
- Interoperable with G.992.1 compliant DSLAMs

G.shdsl (ITU G.991.2)
- **Line Rate:** 192kbps to 2.3 Mbps
- Rate-adaptive, enhanced spectral compatibility

SDSL (2B1Q Conexant-based)
- **Line Rate:** 160 kbps to 2.3 Mbps
- **Training:** Conexant Autobaud capable

ATM Support
- AAL2 (voice), AAL5 (data, voice)
- 6 PVCs (1 voice, 5 data)
- RFC 1483 (multiprotocol over ATM)
- PPPoA (RFC 2364)
- QoS Support: VBR-rt (voice), UBR (data)
- I.610 F5 OAM loopback
- G.165/G.168 echo cancellation, 8 ms echo tail
- **Voice Codes:** PCM (G.711), 32k ADPCM (G.726)
- Idle channel suppression

Frame Relay Support
- Copper Mountain CE fragmentation support
- FRF.5 and FRF.8 support (V.35)

Analog Ports
- 4 or 8 analog FXS ports per TR-57, 50-Pin Amp
- Supports popular CLASS™ features
- **Modes:** FXS Loop Start, Ground Start
- **Ringing:** balanced, 15 REN, total
- Programmable DC offset: 45Vrms -60Vrms

Routing Capability
Ethernet: 10/100 Base T (RJ-45)
- IEEE 802.3 and 802.1D (MAC Bridging)
- IP Support: TCP, RIP V1, RIP V2, UDP, ICMP, ARP, UDP Relay, SYSLOG
- PPP Support: LCP, IPCP, BCP
- DHCP Server to LAN , DHCP from network (NAT)
- Copper Mountain Compatible

Security
- PAP, CHAP, EAP and Radius
- NAT with multi-point to single-point
- Future support for NAT multi-point to multi-point
- PAT with DHCP
- Filtering (Pattern, IP, Bridge)
- Password protection

Management Options
Craft Interface
- EIA-232, physical RJ-48C

Ethernet 10/100 Base T Port
- SNMP V1 support
- Full, menu driven TELNET access
- Software download via TFTP
- Support for VoDSL gateway management systems and firmware download

V.35 DTE Interface
- **Data Rate:** Nx56 or Nx64 kbps (N=1 to 24)
- **Electrical and Mechanical:** CCITT V.35, 34-pin
- Frame Relay (FRF.5, FRF.8 capable)

Environment
- **Operating Temperature:** 0° to 50°C, (32° to 113°F)
- **Storage Temperature:** -20 to 70°C, (-4 to 158° F)
- **Relative Humidity:** Up to 95%, non-condensing

Physical
- **Dimensions:** 2" H x 7.5" D x 11.25" W
- **Weight:** 2 lbs
- **Agency Approvals:** EN55022, EN50082-1, EN60950, ETSI 300-386-2, UL1950, CUL, FCC Part 15 (Class A), FCC Part 68

Power
- **AC Power:** 90-130 VAC, 60Hz, IEC connector, TA 604: 14W, TA 608: 17W
- Optional eight hour battery backup system

Ordering Information

Equipment	Part #
Total Access 604 T1 TDM Network Interface	4200641L1
Total Access 604 T1 TDM with DSX-1	4213640L1#TDM
T1 ATM Network Interface	4200641L2
Total Access 604 T1 ATM with DSX-1	4213640L1#ATM
SDSL Network Interface	4200642L1
SHDSL Network Interface	4200643L1
ADSL Network Interface	4200644L1
Total Access 608 T1 TDM Network Interface	4200681L1
Total Access 608 T1 TDM with DSX-1	4213680L1#TDM
T1 ATM Network Interface	4200681L2
Total Access 608 T1 ATM with DSX-1	4213680L1#ATM
SDSL Network Interface	4200682L1
SHDSL Network Interface	4200683L1
ADSL Network Interface	4200684L1
Optional Battery Backup System	1200641L1