

# Total Access 600

3<sup>rd</sup> Generation

## T1 Integrated Access Device

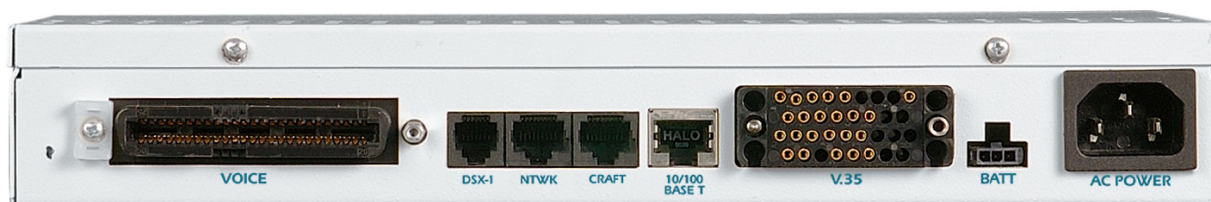
### Front View – TA 608



### Front View – TA 616



### Rear View



#### Physical Interfaces

##### ■ Integrated Ports

- One T1/FT1 port
- One V.35 Nx56/64 DTE Interface (Excludes TA 600R)
- Optional DSX-1 Port (Factory Installed Only)
- One Auto-sensing 10/100Base-T port
- 4, 8, 12, 16, or 24 FXS POTS via 50-pin Amphenol

#### Physical Specifications

- Chassis: 1U Rackmount / Wallmount
- Dimensions
  - TA 600R / 604 / 608: 2" H, 11.25" W, 7.5" D
  - TA 612 / 616 / 624: 1.75" H, 17" W, 8.5" D
- Weight
  - TA 604 / 608: 3 lbs.
  - TA 612 / 616 / 624: 6 lbs.

#### WAN Protocols

- PPP
- ATM (ATM Code Only)
- Frame Relay

#### Routing Protocols

- RIP (v1 and v2)

#### DHCP

- Client, Server, and Relay

#### Administration and Management

- Telnet (Menu Driven)
- SNMP v2
- SYSLOG Logging

- Operating Temperature: 32°F to 113°F (0°C to 45°C)
- Mean Time Between Failure (MTBF)
  - TA 600R: 532,766 Hrs
  - TA 600R W/DSX-1: 511,711 Hrs
  - TA 604: 328,300 Hrs
  - TA 604 w/DSX-1: 320,000 Hrs
  - TA 608: 293,686 Hrs
  - TA 608 w/DSX-1: 287,192 Hrs
  - TA 612: 227,118 Hrs
  - TA 612 w/DSX-1: 223,215 Hrs
  - TA 616: 209,031 Hrs
  - TA 616 GOV: 207,340 Hrs
  - TA 616 w/DSX-1: 205,719 Hrs
  - TA 616 w/DSX-1 GOV: 202,635 Hrs
  - TA 624: 179,921 Hrs
  - TA 624 GOV: 178,668 Hrs
  - TA 624 w/DSX-1: 177,463 Hrs
  - TA 624 w/DSX-1 GOV: 175,163 Hrs
  - TA 624 w/ 8 FXO: 113,521 Hrs
  - TA 624 w/DSX-1 and 8 FXO: 112,537 Hrs

## Performance and Design Considerations

- Voice - TDM
  - Supported 4-Line Phone Styles
    - Panasonic KX-TGA420B / KX-TG4000B
    - GE 29488GE2
    - AT&T 944 / 955 / 964
    - Sony ITM 804
  - FXS Distance Limitation: 1500 ft
  - FXS Signaling Types
    - Loop Start / Ground Start
    - Tandem (E&M)
    - DPO
  - FXS Ring Voltage: 70V AC RMS with 20V DC Offset
  - DSX Pass Through Only
- Voice - ATM
  - 23 Simultaneous TDM to IP Conversions (T1 WAN)
  - 15 Simultaneous TDM to IP Conversions (Ethernet WAN)
  - FXS Distance Limitation: 1500 ft
  - FXS Signaling Types
    - Loop Start / Ground Start
  - DSX Signaling Types
    - PRI (MGCP Only with G6 Switch)
    - T1 CAS Loop Start / Ground Start
- Data
  - T1 Bandwidth: 1 T1 max

## Packet-based Voice Resources (ATM Code ONLY)

- CODECs
  - G.711-64k PCM
  - G.726 32k ADPCM
- Call Control
  - Media Gateway Control Protocol (MGCP)

## Power Specifications

- Auto-ranging Power: 90–130 VAC
- Power Consumption
  - TA 600R / 604: 14 W max, 48 BTU
  - TA 608: 17 W max, 58 BTU
  - TA 612: 28 W max, 96 BTU
  - TA 616: 32 W max, 109 BTU
  - TA 624: 40 W max, 136 BTU
- Max Current Draw
  - TA 600R / 604 / 608: 300 mA
  - TA 612 / 616 / 624: 1.3 A

## Firmware Support

- Current Version
  - TDM Code: A.05.03.05 05/09/2007
  - ATM Code: D.05.03.05 05/09/2007
- Initial Version
  - TDM Code: A.04.03.23 05/30/2003
  - ATM Code: D.04.03.23 05/30/2003

## Warranty

- 10 Year (Repair & Return)
- [www.ADTRAN.com/Warranty](http://www.ADTRAN.com/Warranty)

## Product Includes

- All Total Access 600 units ship with the following:
  - Wallmount Brackets
  - Power Cord (7.5')
  - T1 Cable (6')
  - ADTRAN Documentation CD
  - Total Access 600 Quick Start Guide

For additional product information including data sheets, manuals, installation guides, etc. please visit :  
[www.ADTRAN.com/TotalAccess600](http://www.ADTRAN.com/TotalAccess600)

For network design assistance or general inquiries please visit:  
[www.ADTRAN.com/DesignAssistance](http://www.ADTRAN.com/DesignAssistance)

## Ordering Information

| <b>TDM Chassis</b>                  | <b>Part Number</b> |
|-------------------------------------|--------------------|
| Total Access 600R                   | 4203600L1#TDM      |
| Total Access 600R w/DSX-1           | 4213600L1#TDM      |
| Total Access 604                    | 4203640L1#TDM      |
| Total Access 604 w/DSX-1            | 4213640L1#TDM      |
| Total Access 608                    | 4203680L1#TDM      |
| Total Access 608 w/DSX-1            | 4213680L1#TDM      |
| Total Access 612                    | 4203612L1#TDM      |
| Total Access 612 w/DSX-1            | 4213612L1#TDM      |
| Total Access 616                    | 4203616L1#TDM      |
| Total Access 616 w/DSX-1            | 4213616L1#TDM      |
| Total Access 616 GOV                | 4203616L1#TDMGOV   |
| Total Access 616 w/DSX-1 GOV        | 4213616L1#TDMGOV   |
| Total Access 624                    | 4203624L1#TDM      |
| Total Access 624 w/DSX-1            | 4213624L1#TDM      |
| Total Access 624 GOV                | 4203624L1#TDMGOV   |
| Total Access 624 w/DSX-1 GOV        | 4213624L1#TDMGOV   |
| Total Access 624 w/ 8 FXO           | 4203600L3#TDM      |
| Total Access 624 w/ 8 FXO and DSX-1 | 4213624L3#TDM      |
|                                     |                    |
| <b>ATM Chassis</b>                  | <b>Part Number</b> |
| Total Access 600R                   | 4203600L1#ATM      |
| Total Access 600R w/DSX-1           | 4213600L1#ATM      |
| Total Access 604                    | 4203640L1#ATM      |
| Total Access 604 w/DSX-1            | 4213640L1#ATM      |
| Total Access 608                    | 4203680L1#ATM      |
| Total Access 608 w/DSX-1            | 4213680L1#ATM      |
| Total Access 612                    | 4203612L1#ATM      |
| Total Access 612 w/DSX-1            | 4213612L1#ATM      |
| Total Access 616                    | 4203616L1#ATM      |
| Total Access 616 w/DSX-1            | 4213616L1#ATM      |
| Total Access 624                    | 4203624L1#ATM      |
| Total Access 624 w/DSX-1            | 4213624L1#ATM      |
| Total Access 624 w/ 8 FXO           | 4203600L3#ATM      |
| Total Access 624 w/ 8 FXO and DSX-1 | 4213624L3#ATM      |

| Cables & Accessories                         | Part Number |
|--|-------------|
| Total Access 600 RJ-45 to DB-9 Adapter       | 3196ADPT001 |
| IAD Installation Kit                         | 1800001L1   |
| IAD 8-Port Breakout Box                      | 1200927L8   |
| TA 612, 616, 624 19" Rackmount Kit           | 1200627L1   |
| TA 612, 616, 624 23" Rackmount Kit           | 1200627L2   |
| Rackmount or Wallmount Battery Backup        | 1175044L1   |
| Wallmount Battery Backup                     | 1175044L2   |
| 19" Battery Backup Rackmount Brackets        | 1175047L1   |
| 23" Battery Backup Rackmount Brackets        | 1175048L1   |
| IAD to Battery Backup Bracket (L1)           | 1200626L1   |
| IAD to Wallmount Battery Backup Bracket (L2) | 1200626L2   |

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