

Access Bank® I

Access Bank® I/TR-08

Operational Description

Carrier Class channel bank and small line digital loop carrier for reliable T1 service termination of 12 or 24 analog voice circuits. 30 minute installation with switches and LEDs for setup plus line and channel tests for service validation. CAC's low cost Battery Backup option provides eight hour power backup. A wide range of intelligent 12-channel line types support carrier and enterprise service terminations.

The Access Bank® I is an economical, compact, remote terminal for converting T1 digital access services to 12 or 24 individual analog telephone circuits. The design incorporates an integrated CSU, which allows customers to plug in a T1 line without having to connect other peripheral devices. Six different types of 12-channel and 4+8 channel telephone line interface circuit cards provide a wide variety of analog line services such as FXS, FXSDN, SPOTS, PLARD, BRFXS, FXO, DPO, DPT, E&M, and TO. The Access Bank I operates with high-speed modems and automatically adapts to different line conditions, providing a clear, echo-free transmission path.



Designed to minimize deployment times, the Access Bank I has all configuration information on the case, DIP switches for configuration settings, and self-test routines to ensure that all circuits are working before leaving the site. Installation times are often no more than 30 minutes. In-service maintenance capabilities include hot-swap line cards, line channel LEDs and fuseless protection of all interfaces. A remote management option, with Windows® GUI software and a built-in modem are available.

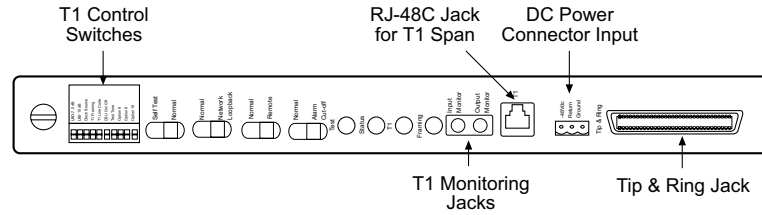
The Access Bank I is installed for economical local or long distance T1 service delivery, modem pool connections to T1, branch office connections, and the rapid deployment of temporary telephone services. Systems integrators use Access Bank I's to convert T1 equipment to a variety of analog service connections for applications such as frame relay and IP telephony, computer telephony integration (CTI), and voice port expansion of T1 digital switches.

The Access Bank I/TR-08 option offers a direct digital T1 connection to Class 5 local switch interfaces, eliminating the need for analog conversion of line connections at carrier central offices. The Access Bank I/TR-08 T1 signaling can be provisioned as physically separate A, B, C, or D shelves. Unlike trunk-side T1 switch connections, TR-08 line-side connections provide full CLASS® features to customer phone lines via the Access Bank I/TR-08.

Access Bank I Features and Advantages

- Carrier Class service delivery
 - Long loop range
 - Automatic line balance
 - Full power ringing
 - Supports CLASS® features
 - TR-08 software option
 - Set up and testing with DIP switches and printed instructions on the case
 - Low power consumption with -48 VDC inputs and A.C. charger
 - Compact size, one rack unit
 - Fuseless line protection, fanless cooling and solid-state signaling
- Supports on-premises and off-premises wiring
 - No voice echoes and optimal modem performance
 - Compatible with customer phone systems
 - Complete local service options
 - Direct connection to line side switch interfaces
 - Provisioning or service with minimal technical training
 - Economical eight hour battery backup option increases service availability
 - Saves space in service installations, wall or rack-mounted
 - Increases service availability and reduces truck-rolls

Technical Specifications



T1

- T1 Terminates 1.536 Mbps (24 channels) of usable bandwidth
- Fully integrated intelligent CSUs support diagnostic functions and DS1 or DSX-1 signal levels from 0 to -30dB
- D4 (SF), ESF framing, and SLC-96 framing with TR-08 option. AMI or B8ZS line coding
- Clock source is internal Enhanced Stratum 4 (master) or synchronized to T1 line
- Bellcore® TR-08 shelf A, B, C or D function (TR-08 option)

Analog Interfaces

- FXS 12-channel card – Supports CLASS® features, such as Distinctive Ringing and Caller ID. Provides loop-start, ground-start, E&M signaling conversion and calling party disconnect
- BRFXS/DPO 12-channel card – Operates as a Battery Reversal FXS loop-start card (BRFXS) or a Dial Pulse Origination (DPO) card. Supports CLASS® features, such as Distinctive Ringing and Caller ID
- FXO/DPT 12-channel card – Operates in FXO loop or ground start signaling or Dial Pulse Terminate (DPT) signaling. CLASS® features are supported. Provides E&M signaling conversion and calling party disconnect
- 4 FXO + 8 FXS - Supports 4 FXO/DPT circuits and 8 FXS circuits as described above
- 4-Wire E&M/TO 12-channel card – Supports Signaling Types I, II, IV or V. Uses up to 4 signaling and transmission pairs per channel (E/M, SG/SB, T/R and TI/RI)
- 2-Wire E&M/TO 12-channel card – Supports Signaling Types I, II, IV or V. Uses up to 3 signaling and transmission pairs per channel (E/M, SG/SB and T/R)
- Full compatibility with V.34 (33.6Kbps) and V.90 (56Kbps) modems
- Patented automatic two-wire analog impedance adjustment adapts to various modems and line lengths

Management

- Optional remote Windows®-based GUI management with built-in modem
- Front panel T1 test switches and status LEDs
- Back panel analog channel option, test switches and status LEDs show red, yellow, green line status
- Built-in T1 self test and telephone line ringing and tone tests

Alarms

- Optional alarm dial-out notification over integrated modem attached to PSTN line (remote management option)
- External alarm contact for visible or audible alarms using pair 25 of line connector

Compliance

- FCC Part 68, CS-03 listed - telephone line interfaces
- FCC Part 15, Class A Radiated Emissions Control
- NRTL safety listed: UL 1459, CSA
- National Electrical Code 1996 safety requirements

Power

- -48VDC @ 1A input from battery source
- Optional 115Vac/75W power converter (CAC P/N 730-0124)
- Optional 220Vac/50Hz to -48Vdc converter module for international applications (CAC P/N 730-0083)
- Solid-state (fuseless) overvoltage and overcurrent protection

CPE Battery Backup System

- Optional 120Vac to -48VDC power converter/battery charger (CAC P/N 730-0116) and battery unit (CAC P/N 730-0114) for up to eight hours of uninterruptible power protection

Environmental

- Normal operating temperature: 0° to 50°C (32° to 122°F)
- Solid-state over-temperature protection
- Relative humidity: 0 to 95%, non-condensing

Physical

- Dimensions: 17" x 17.75" x 1.75" (43.2cm x 45.1cm x 4.5cm), 14.5 lbs. (6.6 kg) fully loaded
- Power converter/battery charger unit: 4" x 5" x 3.25", 6 lbs
- Battery backup unit: 17" x 6.25" x 3", 30 lbs.
- Flush wall mount, desktop, or 19" rack mount (multi-function brackets included)
- 24 units can be mounted in a 7ft., 23" standard rack
- Optional heavy-duty 19" (CAC P/N 710-0041) or 23" (CAC P/N 710-0130) rack mounting brackets with adjustable front-to-back offset
- Optional Trimount bracket for wall mounting of three Access Banks and power converters (CAC P/N 710-0002)



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