The HD10 is the latest innovation from ADTRAN® for extending Basic Rate ISDN services to remote locations. The HD10 is a single-card, ISDN only channel bank that can function as both an interoffice transport and digital loop carrier. This allows telcos to extend ISDN without costly investments in new switching systems or reworking existing remote terminals.

Traditional means of ISDN extension use D4 channel banks or digital loop carriers, such as the SLC-96 or SLC-5, which provide a maximum of eight Basic Rate Interfaces (BRI) per T1. The HD10 makes efficient use of the T1, increasing the number of BRI circuits by 25% from eight to ten.

In addition to increasing customer density, the HD10 greatly reduces the amount of central office rack space needed to deploy BRI services. For example, in the amount of space a D4 channel bank can deploy 16 BRIs (2 digroups), the HD10 can deploy over 180 BRIs (18 digroups). This is better than an 11:1 increase in utilization of rack space.

The advantages of the HD10 in a remote terminal environment are realized when the ISDN services are deployed in the HD10 as opposed to the SLC. Many times when deploying ISDN in SLCs, technicians must perform line station transfers (move circuits around) to accommodate the tri-slot requirement of standard U-BR1TEs. In addition, the SLCs are hard-wired to splice cabinets, which means two pairs can not be used and so are wasted when using standard U-BR1TEs. By deploying ISDN from an HD10 as opposed to a SLC, telcos can better utilize SLC for POTS services (no wasted pairs), increasing customer capacity while greatly reducing deployment time for BRIs.

An HD10 system consists of a shelf or standalone housing and up to three HD10 circuit cards. The shelf can be mounted in a 19” or 23” rack and will accommodate up to three HD10 circuit cards. The standalone housing can be desk or wallmounted and accommodates a single HD10 circuit card. All HD10 system components are NEBS Level 3 compliant.

**PRODUCT FEATURES**

- Provides 10 DSLs in proprietary 4:1 TDM mode
- Interoperable with ADTRAN’s BR1/10
- Compatible with D4, SLC-96, or SLC-5 channel banks in eight DSL mode
- Low profile (1RU high) design for limited space application
- Rackmount or standalone mounting options
- Low power consumption
- NEBS Level 3 compliant
Product Specifications

RACKMOUNT SHELF
- Up to 3 HD10 circuit cards (30 BRIs)

Dimensions
- 1.75" H, 17.25" W, 11.75" D

Mounting
- 19" or 23" racks

Power
- –48 VDC, 210 mAmps (per card)

Rear Panel Connections
- 64-pin Amphenol connector for BRI loops
- Molex-type connectors for up to three DS(X)-1 terminations
- Molex-type connectors for BITS clock and alarm contacts
- Screw terminals for power and ground

STANDALONE HOUSING
- Houses single HD10 circuit pack

Dimensions
- 2" H, 6.25" W, 14" D

Mounting
- Desk or wallmount

Power
- –48 VDC, 210 mAmps

Rear Panel Connections
- 50-pin Amphenol connector for BRI loops
- Screw terminals for DS(X)-1 connection
- Screw terminals for power and alarm contacts
- Screw terminal for chassis ground

ENVIRONMENTAL

Operating Temperature
- –40° to 70°C, (–40° to 158°F)

Relative Humidity
- Up to 95%, non-condensing

Ordering Information

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>PART #</th>
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<tbody>
<tr>
<td>Multiple Mount HD10 Shelf</td>
<td>1150094L1</td>
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<tr>
<td>Single Mount Standalone HD10</td>
<td>1150095L1</td>
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<tr>
<td>HD10 BRI MUX Circuit Card</td>
<td>1250110L1</td>
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Specifications subject to change without notice.