



AHT1U

LOW VOLTAGE ASYNCHRONOUS HTU-C LINE CARD

PRODUCT FEATURES

- RS-232 maintenance port
- 784 kbps dual duplex 2B1Q HDSL transmission over two wire pairs
- Front panel status LEDs conforming to the appearance and function of typical Litespan line cards
- Performance monitoring and alarm reporting
- Low power consumption
- -135 volt span powering capability of the Low Voltage HDSL Range Extender (HRE) and HDSL Transceiver Unit, Remote (HTU-R)
- Troubleshooting functionality
- Licensed by the DSC Corporation
- Supports DSC Litespan software release 7.1.3 or later
- Can be used in Litespan 2000, Litespan 2012, and Litespan ONU channel banks

The ADTRAN Low Voltage Asynchronous Litespan HDSL Transceiver Unit for the central office (HTU-C) is a DS1 interface unit that provides T1 service over four-wire interface facilities. The Low Voltage Litespan HTU-C combine ADTRAN HDSL technology and DSC Litespan technology to provide an HDSL interface to a Litespan system.

ADTRAN's Low Voltage Litespan HTU-C is Licensed by DSC to safely operate in Litespan 2000 and Starspan systems. The unit is licensed under the Asynchronous High bit-rate Digital Subscriber Line T1 Interface Unit (AHT1U) channel unit type.

The Low Voltage Litespan HTU-C can be used in Litespan 2000, Litespan 2012, and Litespan ONU channel bank assembly systems containing Litespan system software versions of 7.1.3 or higher.

The ADTRAN provides the HTU-C products for narrowband and wideband connections. The Litespan HTU-C is compatible with all ADTRAN HDSL transceivers for remote sites (HTU-R) and the HDSL Range Extension (HRE).



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Product Specifications

LOOP INTERFACE

- **Modulation Type:** 2B1Q
- **Mode:** Full duplex, echo cancelling
- **Number of pairs:** Two
- **Bit Rate:** 784 kbps per pair
- **Baud Rate:** 392 kbps per pair
- **Service Range:** Defined by CSA guidelines
- **Loop Loss:** 36 dB maximum @ 200kHz
- **Bridged Taps:** Single Taps <2 kft, total taps ≤ 2.5 kft
- **Performance:** Compliant with Bellcore TA-NWT-001210
- **HDSL Tx Signal Level:** 13.5 dBm
- **Input Impedance:** 135Ω
- **Return Loss:** 20 dB (40 kHz to 200 kHz)

DIAGNOSTICS

- Local loopback (HTU-C)
- Remote loopback (HTU-R)
- Troubleshooting screen

MOUNTING

- Litespan 2000 DBA, Litespan 2012 CBA, or an ONU CBA

ENVIRONMENT

- **Operating (standard):** -40° to 70°C
- **Storage Temperature:** -40° to 85°C

PHYSICAL

- **Dimensions:** 4.42" H, 0.84" W, 10.4" D
- **Weight:** Less than one pound
- **Humidity:** Up to 95% non-condensing

POWER

- **Max Power Dissipation HTU-C and HTU-R:** < 4 watts
- **Span Power:** -135 VDC internally generated from the -48 VDC

Ordering Information

EQUIPMENT

PART

AHT1U HTU-C for DSC Litespan

AHT1U Narrowband

Wideband Wiring.....1245002LB

Call for individual module information.

Specifications subject to change without notice.



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