Cisco HWIC-1CE1T1-PRI Datasheet

Cisco HWIC-1CE1T1-PRI 1 port channelized T1/E1 and PRI HWIC (data only)

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The Cisco® Channelized T1/E1 and ISDN PRI High-Speed WAN Module HWIC-1CE1T1-PRI combine multiple T1/E1 WAN connectivity-Channelized T1/E1 and ISDN Primary Rate Interface (PRI), in the same card. Applications include fractional or full T1/E1 WAN connectivity, ISDN PRI for primary WAN link or WAN backup, and dial access aggregation. With flexible WAN connectivity options, together with integrated routing, security, voice, and wireless capabilities, the Cisco Integrated Services Routers can meet every need of enterprise-class branch offices today and in the future. Three versions are available, 1- and 2-port cards in a single-wide high-speed WAN interface card (HWIC), and a 8-port cards in a single-wide network module. The different versions help enable customers to deploy different port densities according to the needs of individual offices.

The modules can be used in T1 or E1 networks, selectable by software configuration. The integrated channel service unit/data service unit (CSU/DSU) function allows customers to consolidate customer premises equipment (CPE). The modules support balanced and unbalanced E1 connectivity and conform to the G.703 and G.704 standards for unframed and framed E1 modes. The Channelized T1/E1 and ISDN PRI modules work with the digital modem module in the Cisco 2800, 2900, 3800, and 3900 Series Integrated Services Routers to provide V.90- and V.92-compliant digital dial access aggregation.

Specifications

- Product Code: HWIC-1CE1T1-PRI

- Description: 1 port channelized T1/E1 and PRI HWIC (data only) Cisco Router High-Speed WAN Interface card
- Remote Management
    - Cisco CNS 2100 Series Intelligence Engine (IE2100)
    - CiscoWorks
- Signaling Debugging
    - ISDN Q.921 and Q.931 decode
    - All other previously existing applicable Cisco IOS Software debugs
- Dimensions (H x W x D)
    - HWIC-1CE1T1-PRI: 0.75 x 3.08 x 4.74 in.
    - (1.91 x 7.82 x 12.04 cm)
- Weight
    - HWIC-1CE1T1-PRI: 0.18 lb (0.08 kg)
- Diagnostic Loopback Support
    - E1 loopback modes:
    - Controller local loopback
    - Interface local loopback
    - T1 loopback modes:
    - Interface local loopback
    - Interface remote loopback
    - Controller local loopback
    - Controller remote loopback
    - CSU loopback modes for T1 CSU:
    - Data terminal equipment (DTE) loopback
    - Network loopback
    - Payload loopback

- Alarm Detection
    - Yellow Alarm-Receive/Send from/to network
    - Blue Alarm-Receive alarm indication signal (AIS) from network
    - Red Alarm-Loss of network signal
- Relevant MIB Support
    - T1 MIB (RFC1406-MIB)
    - Cisco Integrated DSU/CSU MIB (CISCO-ICSUDSU-MIB)
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- Dimensions (H x W x D)
    - HWIC-1CE1T1-PRI: 0.75 x 3.08 x 4.74 in.
    - (1.91 x 7.82 x 12.04 cm)
- Weight
    - HWIC-1CE1T1-PRI: 0.18 lb (0.08 kg)
- Operating Temperature: 32 to 104°F (0 to 40°C)

- Nonoperating Temperature: -40 to 158° F (-40 to 70°C)
- Relative Humidity: 5-95% noncondensing
- LEDs
    - LEDs per port
    - Carrier Detect/Loopback (CD/LP):
    - Off = No carrier detect
    - Green On = Carrier detect
    - Yellow On = Port in loopback mode
    - Alarm (AL):
    - Off = No alarms
    - Yellow On = Port in alarm mode
    - LEDs per module (on NM-8CE1T1-PRI only):
    - EN:
    - Off = Card not available
    - On = Card enabled
- Ports: 1, 2, or 8 T1/E1 ports on RJ-48C connectors
- Line Bit Rate (per Port)
    - E1: (2.048 Mbps)
    - T1: (1.544 Mbps)
- Line Coding

    - E1: High-density bipolar three (HDB3)
    - T1: Alternate mark inversion (AMI) and binary 8-zero substitution (B8ZS
- Framing Formats
    - E1: CRC4
    - T1: Super Frame (SF) and Extended Super Frame (ESF)
- Output Levels
    - E1: short-haul/long-haul
    - T1 (line build-out [LBO]): 0, -7.5, or -15 dB

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