

Cisco HWIC-4T1-E1 Datasheet



Cisco HWIC-4T1/E1 4 port clear channel T1/E1 HWIC

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The Cisco 4-Port Clear Channel T1/E1 High-Speed WAN Interface Card HWIC-4T1-E1 provides n x T1/E1 connectivity in a compact form factor and reduces deployment and management costs for the Cisco 2800, 3800, 2900 and 3900 Series Integrated Services Routers.

As more data and voice services are enabled in branch offices, the demand for WAN bandwidth increases accordingly. Multilink Point-to-Point Protocol (PPP) and Multilink Frame Relay enable customers to scale their leased lines from single T1/E1 to multiples of T1/E1, adding bandwidth as their needs increase. The Cisco 4-Port Clear Channel T1/E1 High-Speed WAN Interface Card (HWIC) integrates four T1/E1 ports in a singlewide HWIC to facilitate n x T1/E1 connectivity in a compact form factor.

With the Cisco 4-Port Clear Channel T1/E1 HWIC with integrated channel service unit and data service unit (CSU/DSU), you can consolidate customer premises equipment (CPE). The modules support balanced and unbalanced E1 connectivity and conform to G.703 and G.704 standards for unframed and framed E1 modes. The module supports both T1 and E1 modes, selectable by software configuration.

Features

- 4 ports of RJ-48 connectors

- Cisco IOS Software configurable for T1 or E1 operation
- Integrated CSU/DSU per port
- Balanced or unbalanced E1 termination in the same module
- E1 unframed and framed modes (G.703 and G.704)
- Independent clocking for each port
- Multilink PPP or Multilink Frame Relay (FRF.16) for T1/E1 ports on the same module and across different modules

Specifications

- Manufacturer: Cisco
- Part Number: HWIC-4T1/E1
- Device Type: Expansion module
- Form factor: Plug-in module
- Interfaces/Ports: 4 x RJ-48C T1/E1 WAN
- Data Transfer Rate
 - 1.54 Mbps T1
 - 2.05 Mbps E1
- Management
 - Supported by Cisco WAN Access Performance Management System (WAPMS)
 - Cisco CNS 2100 Series Intelligence Engine (IE2100)
 - CiscoWorks
- 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
 - RFC1406-MIB
 - CISCO-ICSUDSU-MIB
- Signaling Debugging
 - ISDN Q.921 and Q.931 decode
 - All other previously existing applicable Cisco IOS Software debugs
- Dimensions (H x W x D): 0.75 x 3.08 x 4.74 in. (1.91 x 7.82 x 12.04 cm)
- Weight: 0.20 lb (0.09kg)
- Operating Temperature
 - 32 to 104°F (0 to 40°C)
 - 14 to 131F (-10C to 55C when installed in the MWR-2941-DC)
- Relative Humidity: 5 to 95% noncondensing

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