

Refurbished CISCO SM-NM-ADPTR Datasheet

CISCO > INTERFACES-MODULES

Cisco Network Modules

Product Numbers of the Cisco Channelized T1/E1 and ISDN PRI Modules and Cables

Description Network Module Adapter for SM Slot on Cisco 2900 and 3900 Series ISR

Number of DS-0 Channels Supported per Module

Type of Module	Cisco 1841 thru 3945E
HWIC-1CE1T1-PRI	Up to 32 channels on each card
HWIC-2CE1T1-PRI	Up to 64 channels on each card
NM-8CE1T1-PRI	Up to 128 channels on each card (1841 thru 3845, up to 256 channels on the 3945E, 3925E, 3945, 3925)

Management Features

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)
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

Hardware Specifications for the Cisco Channelized T1/E1 and ISDN PRI Modules

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) HWIC-2CE1T1-PRI: 0.75 x 3.08 X 4.74 in. (1.91 x 7.82 x 12.04 cm) NM-8CE1T1-PRI: 1.59 x 7.10 x 7.29 in. (4.0 x 18.0 x 18.5 cm)
Weight	HWIC-1CE1T1-PRI: 0.18 lb (0.08 kg) HWIC-2CE1T1-PRI: 0.19 lb (0.09 kg) NM-8CE1T1-PRI: 1.4 lb (0.63 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

Regulatory Compliance and Safety (partial listing*)

Telecom compliance	USA: FCC Part 68, TIA-968A Canada: Industry Canada CS-03 European Union: TBR 4, TBR 12, TBR 13 Australia: AS/ACIF S038, AS/ACIF S016 Japan: JATE Gray Book Hong Kong: HKTA 2027, HKTA 2015 Taiwan: IS6100 Singapore: IDA TS ISDN PRA Korea: MIC No.2004-15
Telecommunication Interface Industry Standards	ITU-T G.703, G.704, G.706, G.823, and ANSI T1.403
Safety	United States: UL60950 Canada: C22.2 No.60950 Europe: EN60950 Australia and New Zealand: AS/NZS3260 and TS001 Other countries: IEC60950
Network Equipment Building Standards (NEBS)	GR-63, GR-78, and GR-1089-CORE Type 1/3
EMC Emissions and Immunity	47 CFR Part 15: 2005 CISPR22: 2005 EN300386: V1.3.3: 2005 EN55022: 1994 [+ amd 1 & 2] EN55022: 1998 EN61000-3-2: 2000 [Inc amd 1 & 2] EN61000-3-3: 1995 [+ amd 1: 2001] ICES-003 Issue 4: 2004 KN 22: 2005 VCCI: V-3/2006.04 CISPR24: 1997 [+ amd 1 & 2] EN300386: V1.3.3: 2005 EN50082-1: 1992 EN50082-1: 1997 EN55024: 1998 [+ amd 1 & 2] EN61000-6-1: 2001

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