

VWIC2-2MFT-T1/E1 Datasheet

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Overview

The Cisco Second-generation 1- and 2-port T1/E1 Multiflex Trunk Voice/WAN Interface (MFT VWIC2s) support data and voice applications on the Cisco 1721 (data only), 1751 and 1760 Modular Access Routers, the Cisco 2600XM Multiservice Router, the Cisco 2691 Multiservice Platform, the Cisco 3662 Telco Versatile DCN Access Platform, the Cisco 3725 and 3745 Multiservice Routers, and the Cisco 1841 (data only), 2801, 2811, 2821, 2851, 3825, and 3845 Integrated Services Routers. The Cisco MFT VWIC2 combines WAN-interface-card (WIC) and voice-interface-card (VIC) functions to provide unparalleled flexibility, versatility, and investment protection through its many uses. Customers who choose to integrate data and voice in multiple steps preserve their investment in a T1/E1 WAN interface because the Cisco MFT VWIC2 cards can be reused in packet voice applications. The 2 port T1/E1 MFT VWIC2 is shown below.

The Cisco MFT VWIC2 interface cards add numerous improvements over the Cisco 1- and 2-port T1/E1 Multiflex Voice/WAN Interface Cards (MFT VWICs). The MFT VWIC2 cards have an onboard slot for a Cisco MFT Dedicated Echo Cancellation (ECAN) Module (part number EC-MFT-32 or EC-MFT-64), offering an enhanced echo-cancellation capability for demanding network conditions. The T1/E1 MFT VWIC2 cards support both T1 and E1, providing additional flexibility in configuring the Cisco MFT VWIC2s for supporting T1, fractional T1, E1, and fractional E1 for both voice and WAN applications. All MFT VWIC2 modules now include the drop-and-insert multiplexing capability, which eliminates costly external third-party channel service units/data service units (CSUs/DSUs) and drop-and-insert multiplexers. The Cisco 2-port MFT VWIC2s also can enable each port to be clocked from independent clock sources for data applications. This independent clocking capability is not supported for voice applications or with the Cisco ATM/Voice Advanced Integration Modules (part number AIM-ATM, AIM-VOICE-30, AIM-ATM-VOICE-30).

The Cisco MFT VWIC2 cards can either be inserted into the WIC, VWIC and high-speed WIC (HWIC) slots on the supported Cisco 1721, 1751, 1760, 1841, 2600XM, 2691, 2801, 2811, 2821, 2851, 3662, 3725, 3745, 3825, and 3845 access routers, or they can be used in the VWIC slot(s) on the Digital T1/E1 Packet Voice Trunk Network Module (NM-HDV), IP Communications High-Density Digital Voice/Fax Network Modules (NM-HDV2), IP Communications High-Density Digital Voice NM with 1 T1/E1 (part number NM-HDV2-1T1/E1), IP Communications High-Density Digital Voice NM with 2 T1/E1 (part number NM-HDV2-2T1/E1), 2 slot IP Communications Enhanced Voice/Fax Network Modules (NM-HD-2VE), 2 WAN Card Slot Network Module (NM-2W), 1 10/100 Ethernet 1 4/16 Token Ring 2 WAN Card Slot NM (NM-1FE1R2W), 1 10/100 Ethernet 2 WAN Card Slot Network Module (NM-1FE2W-V2), and 2 10/100 Ethernet 2 WAN Card Slot Network Module (NM-2FE2W-V2) when used with a supported access router.

The Cisco MFT VWIC2 cards are offered in single- and dual-port versions, which can be used and then redeployed as network requirements change, thereby addressing several applications:

- T1/E1 data---The Cisco 1- and 2- port T1/E1 MFT VWIC2 versions act as a WIC, supporting T1, fractional T1, E1, (including structured G.703 with G.704 framing), fractional E1, and E1structured G.703 applications. To simplify remote management, these MFT VWIC2 cards integrate a fully managed DSU/CSU for T1 deployments and a fully managed DSU for E1 deployments.
- E1/G.703 data---The Cisco 1- and 2- port G.703 MFT VWIC2 versions act as a WIC, supporting T1, fractional T1, E1 (including structured G.703 with G.704 framing), fractional E1, and unstructured E1 (G.703) applications. To simplify remote management, the G.703 version includes a fully managed DSU. The G.703 versions also support all the capabilities on the T1/E1 versions.
- T1/E1 packet voice---The Cisco 1- and 2- port T1/E1 MFT VWIC2 (voice and WAN) versions act as a VIC, supporting packet voice applications by providing T1, fractional T1, E1, and fractional E1 connections to private branch exchanges (PBXs) and central offices, thereby enabling new services and reducing voice and fax toll charges.
- Mixed data and packet voice---The Cisco MFT VWIC2 interface cards can simultaneously support both data and voice, reducing the complexity and number of network components and facilitating a graceful migration to bandwidth-efficient packet voice.
- Mixed data and packet voice with drop and insert---The Cisco MFT VWIC2 cards can be deployed as a T1/E1 drop-and-insert multiplexer with integrated DSUs/CSUs, reducing the complexity of the network and the cost of the central-office ports by efficiently combining time-division multiplexing (TDM) voice (PBX), IP voice, and data on the same trunks. Note the Cisco 1721, 1751 and 1760 support drop and insert between two ports over a single VWIC2 card while Cisco 2800 and 3800 ISR routers supports drop and insert between two ports over a single VWIC2 card and two ports over two different VWICs.

Specification

General Information	
Manufacturer:	Cisco
Product ID:	VWIC2-2MFT-T1/E1
Product Description:	2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1

Product Type:	Voice/WAN Interface Card
Marketing Information	
The Cisco 2-port T1/E1 multiflex interface cards provide voice and data access to the PSTN domain through TDM ports. They are dual-port trunk interfaces for voice, data, and integrated voice and/or data applications. These cards provide basic structured service for T1 or E1 networks and unstructured service for fractional E1 networks. The cards include an integrated DSU/CSU. Some cards also support the drop-and-insert process, which adds data to a T1 or E1 data stream, or which terminates data from a T1 or E1 data stream to other devices connected to the drop-and-insert equipment.	
Technical Information	
Application/Usage:	Voice
Interfaces/Ports	
Interfaces/Ports:	2 x T1/E1 WAN
Interfaces/Ports Details:	2 x RJ-48C T1/E1 WAN
Media & Performance	
Connectivity Media:	Category 5 STP/UTP
Data Transfer Rate:	1.54 Mbps T1 2.05 Mbps E1
Management & Protocols	
Management:	MIB and Simple Network Management Protocol (SNMP)
Protocols:	SNMP
Controls/Indicators	
Status Indicators:	AL, LP, CD
Miscellaneous	
Additional Information:	The card include an integrated data service unit/channel service unit (DSU/CSU) Shielded cables STP Cat 5 should be used on E1 ports Full support for T1 Facility Data Link (FDL) Controller local loopbacks Controller remote loopbacks Firmware to support T1 and E1 Layer 1 homologation User-initiated VWIC reset and field-programmable gate array (FPGA) download Voice support (includes DS0-group and PRI-group configuration) Drop and insert capability MFT VWIC2s have an onboard slot for a multiflex trunk dedicated echo cancellation module (EC-MFT-32 and EC-MFT-64), offering an enhanced echo cancellation capability for demanding network conditions.
Compatibility:	Cisco 2600XM series, Cisco 2691, Cisco 2800 series, Cisco 3700 series, and Cisco 3800 series routers Cisco 1700 Series Modular Access Routers Supported Network Module: NM-HDV NM-HDV2 NM-HD-2VE NM-2W NM-1FE1R2W NM-1FE2W-V2 NM-2FE2W-V2
Certifications & Standards:	ITU-T G.164 ITU-T G.165 ITU-T G.168 RFC 1406 MIBs: RFC 1406 MIB T1 CSU MIB Support Port Module MIB T1/E1 Line Status Reporting

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