

IMTRAN® CONVERTER MODULES 10 Mb/s Ethernet Wirespeed Bridge



The IPITEK® Ethernet Bridge modules are used in conjunction with IPITEK IMTRAN CQ series transmission systems to transport 10baseT (>10 Mb/s) data communications over fiber. This allows the connection of multiple local area networks (LANs) over great distances. The module is a "store-and-forward" device looking at the entire Ethernet packet before making filtering or forwarding decisions.

As a learning bridge, the module determines the destination segment by building a table as packets are passed through the network. The module's LAN table can store up to 10,000 addresses and is automatically updated. The aging machine automatically deletes entries if after five minutes no frames have been received from that station.

One bridge card pair provides bidirectional ethernet connectivity with another similarly equipped node on the same IMTRAN ring. Each node's bridge board can be independently configured for Attachment

FEATURES & BENEFITS

- Fully IEEE 802.3 Compatible
- On Board AUI (DTE or DCE), 10Base2 Coax and UTP Interfaces
- 10,000 Addressable LAN Table
- Forwarding: 15,000 pps
- Automatic LAN Table Learning and Aging
- 7 Status Monitor LEDs
- Provides a Wirespeed (>10 Mb/s) Bridge Between 2 Ethernet Segments
- Unlimited Distance Extension of LAN

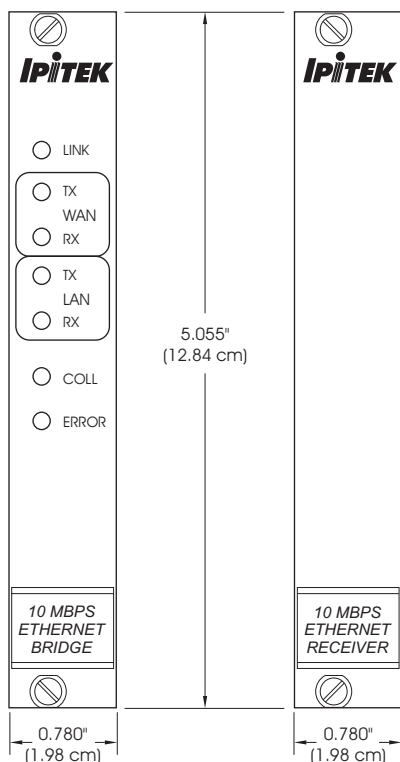
Unit Interface Data Terminal Equipment (AUI DTE), AUI Data Communications Equipment (DCE), 10Base2 Coax or Unshielded Twisted Pair (UTP) media. In Add/Pass nodes the bridge consists of one bridge board and one receive board. Cross connect nodes require only the bridge board.

Local status monitoring is facilitated via seven front panel LED indicators. These LEDs show status indications of link integrity (UTP mode only), WAN and LAN activity, collisions and system errors.

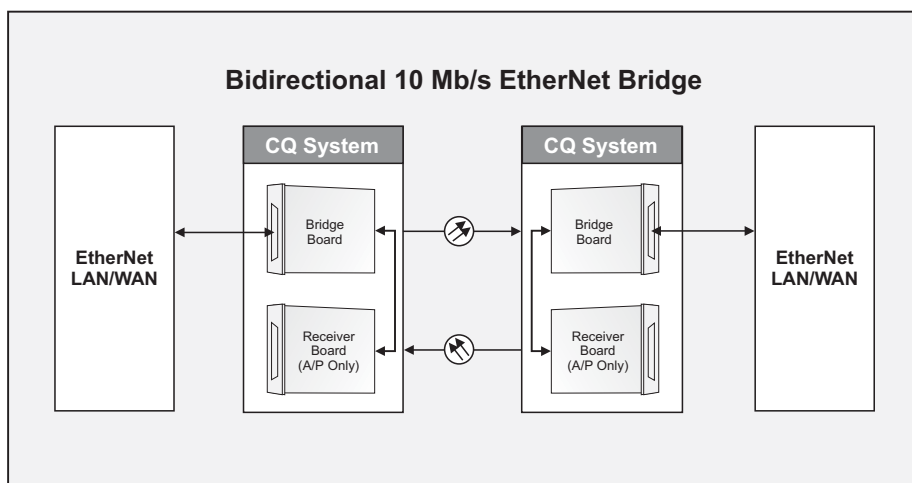
These compact modules are compatible with all existing IMTRAN CQ series digital transmission chassis.

Utilizing IMTRAN equipment, combinations of uncompressed video and audio, compressed video, telephony and various data communications, such as T1, E1, T3, E3, RS-232, RS-449 and Ethernet, can be transported over a single fiber.

MECHANICAL



OPERATION



SPECIFICATIONS

Electrical

WAN Link:	≤ 25 Mb/s
LAN Table:	≤ 10,000 addresses
Buffer:	256 frames
Filtering Rate:	15,000 pps
Forwarding Rate:	15,000 pps
Compatibility:	IEEE 802.3

Interface

10Base2 (ThinNet):	
10BaseT (Twisted Pair):	
10Base5 (ThickNet*):	

Connector

BNC
RJ-45
DB-15

Environmental

Operating Humidity:	85% non-condensing
Operating Temperature:	-0° to 50°C
Storage:	-55° to +75°C, 24 hrs.

Status Indicators

Link
WAN Transmit
WAN Receive
LAN Transmit
LAN Receive
Collision
Error

*Requires external transceiver

ORDERING INFORMATION

IM	-	CQENET	-	10	-	XX
<i>IMTRAN</i>		CQ-Compatible Ethernet Module		Transfer Rate 10 Mb/s		Type TX = Transmitter RX = Receiver



2330 Faraday Avenue • Carlsbad • CA • 92008
(760) 438-1010 • Toll Free (888) 4-IPiTEK (447-4835)

IPiTEK reserves the right to modify product specifications without prior notification.

DAT-IMCQ-ENET Rev. A Copyright © IPiTEK 2001

FAX (760) 438-2412 • sales@ipitek.com • www.ipitek.com

IPiTEK is ISO 9001 Registered