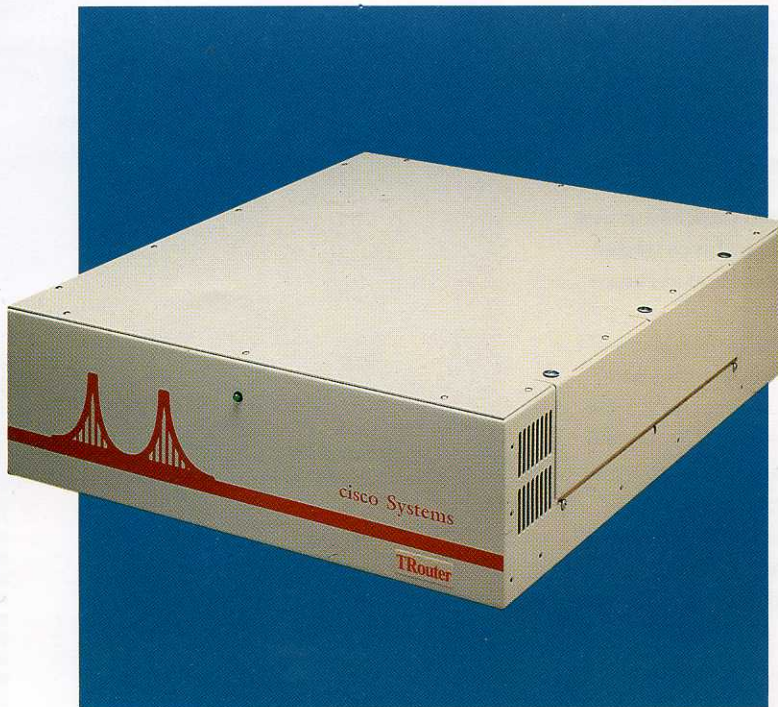


CISCO SYSTEMS

TRouter

Cisco's TRouter™ provides a combined TCP/IP Terminal Server and multi-protocol Internetwork Router with unequalled functionality and performance.



The TRouter combines cisco's multi-media, multi-protocol routing expertise with its unparalleled TCP/IP terminal service in a single four-slot chassis.

Cisco® Systems, a pioneer in network science, builds complex, manageable LANs and WANs. Internetworking products from cisco provide multi-protocol, multi-media, multi-vendor connectivity.

Cisco's TRouter provides the functionality of internet routing and network connectivity for a variety of asynchronous devices in a 5¼ inch x 17½ inch rack-mountable chassis.

The TRouter features the popular MC68020-based microprocessor for exceptional performance and non-volatile memory for configuration retention and increased reliability.

For fast internetwork multi-protocol routing, the TRouter uses the unique cisco-designed Multi-port Communications Interface (MCI) board which has two ports for connection to either two Ethernets, two synchronous serial lines or one of each. The Ethernet ports support Ethernet version 1, 2 and IEEE 802.3. The serial ports support HDLC, LAPB, X.25 and DDN X.25 at transmission speeds up to 4Mbps.

As a Terminal Server, the TRouter can interconnect up to 16 terminals, printers and other asynchronous devices to a network. The TRouter can multiplex data from the RS-232 serial lines onto either of the two high-speed network interfaces. Each terminal line supports data rates up to 38.4Kbps, while providing both rotary and modem functions.

The TRouter's flexibility lies in one of the best software foundations ever designed: Routing and Terminal Service can be performed simultaneously.

Multiple-protocol routing is supported for the TCP/IP, DECnet,™ and XNS. IP routing can be performed with cisco's own IGRP,™ as well as RIP, EGP and Hello. Due to the MCI board's innovative design, routing can be performed at an impressive 12,000 packets per second.

As a Terminal Server, the TRouter can network up to sixteen asynchronous serial lines at up to 38.4K baud. Incoming and outgoing connections with access control provide complete transparent network access. The TELNET protocol is supported so connections can be created to any type of computer anywhere on your network, from PCs to super computers. The rlogin protocol is also included for connection to UNIX™ systems.

The Serial Line IP (SLIP) framing technique, which is a popular method for inexpensively connecting PCs to a local area or wide area network, is also provided.

The network administrator can access the TRouter from any point on the network and can perform the same configuration or monitoring functions as if connected to a device directly. The Simple Network Management Protocol (SNMP) provides a standardized method to request network monitoring and management information for both the terminal server and routing functions.

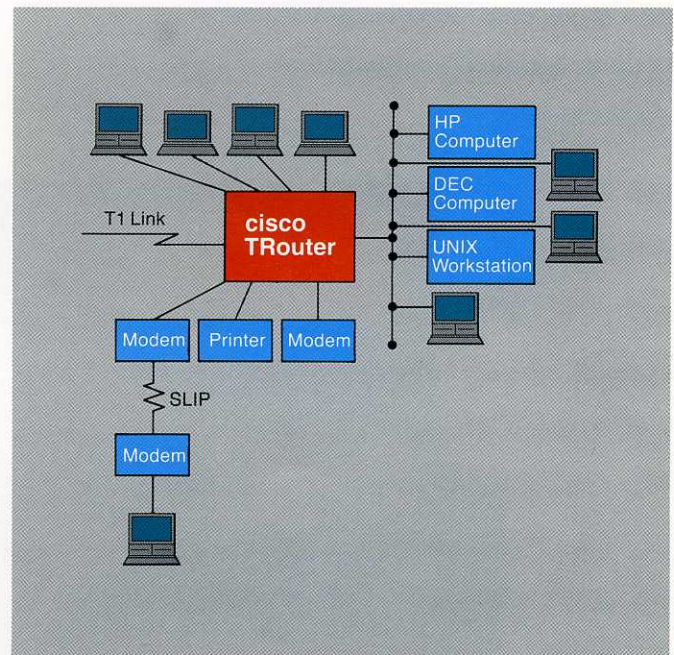
Cisco's TRouter is an ideal multi-function device that can be used in places where packet-switching and terminal services are a necessity.

The TRouter can be used on the periphery of your network providing service to a remote Ethernet via a synchronous serial line at a rate from 9.6Kbps to T1. Asynchronous dial-in and dial-out modems can be attached to the serial ports for remote access to the network.

In addition, a TRouter located at one remote office can be used to connect to TRouters at any number of other remote offices via an X.25

data network. By connecting the other port of each TRouter to an Ethernet running TCP/IP, DECnet or XNS; LANs at the respective remote offices can be interconnected. In addition by using SLIP, personal computers can access larger computers on the LAN or across the X.25 network.

In summary, the TRouter provides small remote workgroups with both LAN and WAN access as well as the ability to connect modems, printers and personal computers.



The TRouter operates as a Router and a Terminal Server. In the above configuration, the two network ports allow for routing packets between the Ethernet and the T1 serial link. In addition, the 16 asynchronous lines can provide a connection to multiple host via the Ethernet or T1 port.

cisco, IGRP and TRouter are trademarks of cisco Systems, Inc. DECnet is a trademark of Digital Equipment Corporation. UNIX is a trademark of AT&T.

All specifications are subject to change.

© February 1989 cisco Systems, Inc.

1350 Willow Road
Menlo Park, California 94025 USA
800-553-NETS 1-415-326-1941