CROCUS 2M ROUTER INTERFACE

> THE CROCUS 2M ROUTER INTERFACE INTEGRATES HIGH-SPEED ACCESS TECHNOLOGY AND IP ROUTING IN ONE SINGLE PIECE OF EQUIPMENT. THE ROUTER FITS INTO THE CURRENT GENERATION OF CROCUS ACCESS EQUIPMENT. IT PERMITS AN ETHERNET SEGMENT TO BE CONNECTED DIRECTLY TO THE BASIC UNIT.

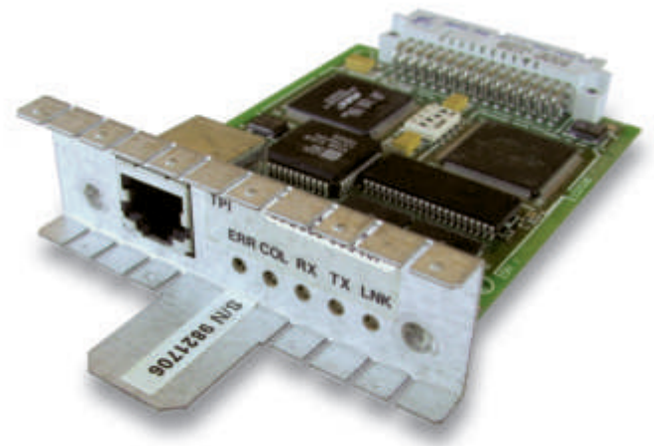
Many vendors use only bridge technology to make LAN-to-LAN connections. This approach is adequate for only a few users. It also has the major drawback of sending the broadcast traffic over the access link, thus reducing the overall performance of the network. In addition, security and reliability issues may require the use of a router instead of a bridge.

The integrated Crocus 2M Router Interface on one side of the link can be combined with an external router on the other side of the link. In this case, the external router will be connected to the Crocus modem by means of a serial interface, like V.35. This combination has the advantage of combining an integrated and cost-effective solution on a remote user site with the power and flexibility of an external router on a central access site.

The router-interface card is available either in a transparent or in an Nx64k version. With the transparent interface card, the complete available modem bandwidth is used by the router interface.

With the Nx64k version, the operator can configure the router-access speed as any multiple of 64 kbps up to the speed available on the line access. After routing of the IP packets, the LAN traffic is encapsulated for transmission over the WAN link. The router supports PPP and Frame-Relay encapsulation.

Features of the Crocus 2M Router Interface include Static IP routing, RIP version 2, filtering of IP packets (basic firewall functionality), Network Address Translation (NAT) and Port Address Translation (PAT). The Crocus Router Interface supports auto-install features over the WAN network for both PPP and Frame-Relay.



The unit is designed for integration into demanding network environments and can be controlled by the complete TMA Maintenance and Management Suite.

FEATURES & BENEFITS

- > IP ROUTER INTERFACE FOR CROCUS ACCESS EQUIPMENT
- > DIRECT 10BASE-T ETHERNET CONNECTIVITY
- > LAN-INTERCONNECT WITH SPEEDS UP TO 2 MBPS
- > MANAGEABLE UNDER HP OPENVIEW®

LAN INTERFACE
> Compliant with IEEE 802.3 10Mbps HDX Ethernet
> RJ45 Unshielded Twisted Pair (UTP)

SUPPORTED LAN PROTOCOLS
> IP
> Bridging of other protocols

SUPPORTED WAN ENCAPSULATION PROTOCOLS
Frame-Relay (RFC 1490, RFC2427)
> Maximum number of Frame-Relay DLCI's: 32
> CIR (Committed Information Rate) configurable per DLCI
> EIR (Excess Information Rate) configurable per DLCI
> Support of Inverse ARP over Frame-Relay for automatic gateway configuration
> Support of LMI
  > Revision 1 LMI
  > ANSI T1.617
  > ITU-T

PPP (RFC1661, RFC1662)
> Support of Chap authentication with MD5 hashing (RFC 1994)

PERFORMANCE
> Processing speed: up to 14400 packets/sec
> Forwarding on WAN link: up to 3000 packets/sec
> Buffering: up to 7000 packets (64 bytes/packet)

IP ROUTING AND BRIDGING
> Static routes
> RIP version 2 with MD5 hashing and authentication (RFC2453)
> Bridging with spanning tree

ADDITIONAL FEATURES
> NAT (Network Address Translation) Dynamic or static IP address conversion
> PAT (Port Address Translation)
> DHCP server,client, relay agent
> Numbered/unnumbered WAN Interface

AUTOINSTALL SUPPORT
DLCI number configuration
  > LMI (Frame-Relay only)
IP address configuration
  > BootP client (RFC951)
  > DHCP client & relay agent (RFC2131, RFC2132)
  > IPCP (for PPP only)
Gateway configuration
  > Inverse ARP (for Frame-Relay only)
  > IPCP (for PPP only)
Full configuration
  > Automatic TFTP configuration download (RFC1350)

FIREWALL FUNCTIONS
Access filtering on LAN and WAN interfaces
> Source IP Address
> Destination IP Address
> Source port umber
> Destination port number
> IP protocol field

MAINTENANCE AND MANAGEMENT SUPPORT
> Integration in the TMA management suite

NX64 KBPS FUNCTIONALITY (NX64K MODEL ONLY)
> Configuration of any multiple of 64 kbps, up to the line speed
> G.704 compatible framing for direct interfacing on central cross connect systems, SDH backbones, and routers equipped with G.703 interface

FRONT PANELS
> LNK: indicates the good Link integrity on the UTP interface
> TX: indicates the LAN is transmitting data
> RX: indicates the LAN is receiving data
> COL: indicates the occurrence of a collision on the LAN
> ERR: indicates an overrun/underrun in the router functionality

SALES CODES
> 161613 Router intf Crocus
> 175257 Router (Nx64k) intf. Crocus

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