CROCUS ROUTER 2M

TELINDUS
ACCESS
SOLUTIONS

> TELINDUS
DYNAMIC
ROUTING ENGINE

> ACCESS
ROUTERS

> BROADBAND
CENTRAL OFFICE

> BROADBAND
CPE

> TDM CENTRAL
OFFICE

> VOICEBAND
MODEMS

> TDM DSL
MODEMS

> FIBRE OPTIC
MODEMS

> MULTIPLEXERS
& INTERFACE
CONVERTERS

> ISDN
MULTIPLEXERS

> MODULAR
DATA
INTERFACES

> NETWORK
MAINTENANCE &
MANAGEMENT

> ACCESSORIES

TELINDUS
SURVEILLANCE
SOLUTIONS

> TELINDUS
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SOLUTIONS

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> REMOTE
MANAGEMENT
SERVICES

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FEATURES & BENEFITS

> SINGLE PORT HIGH-PERFORMANCE 2 MBPS ROUTER
> AVAILABLE WITH SERIAL INTERFACE (X.21, V.35, V.36, RS-232, RS-530) OR FRACTIONAL E1 (G.703)
> COMPATIBLE WITH ALL MAJOR ROUTER MANUFACTURERS
> PPP, FRAME-RELAY AND X.25 ENCAPSULATION
> STATIC AND RIP-2 ROUTING
> NAT, PAT, DHCP
> LIFETIME FREE SOFTWARE UPGRADES
> CONFIGURATION AND MAINTENANCE SOFTWARE INCLUDED

> **THE CROCUS 2M ROUTER HIGH-SPEED ACCESS ROUTER OFFERS A COST EFFECTIVE SOLUTION FOR REALISING LAN CONNECTIVITY FOR SMALL AND MEDIUM SIZE END USER NETWORKS.**

Through its versatile serial WAN interface, it can connect to almost any leased line transport infrastructure.

The router comes with a classical serial interface like X.21, V.35, V.36 (RS-449), RS-232 and RS-530, or also with a (fractional) G.703 E1 interface.

The latter allows the user to map the routed traffic into any number of selected time-slots, offering the largest possible flexibility for the interconnection to a G.704 based Digital Access Cross Connect System (DACCS) or an SDH backbone.

The use of Frame-Relay or X.25 encapsulation allows the router to interface seamlessly with any frame relay or X.25 network. This is illustrated in the figure below. PPP is more common when realising point-to-point connections.

The unit is designed to support differentiated services based on VPNs (Virtual Private Networks). Therefore it supports features like L2TP (Layer 2 Tunneling Protocol) and QOS (Quality Of Service) based on Diffserv. The unit is designed for integration into demanding network environments and can be controlled by the complete set of network maintenance and management tools as they are described in this catalogue.

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

WAN PHYSICAL CHARACTERISTICS
Serial interface models
> ISO 2110 (DB25 female): DTE, direct compliant to RS 232, RS-530, RS-530A
> Through adapter cable: X.21, V.35, V.36 (RS-449)
> Synchronous clocking modes: internal, internal transmit, slave-receive, external
> Synchronous internal clock speeds: 64, 128, 256, 512, 1024, 2048 kbps
> Asynchronous mode speeds: 9600, 19200,38400, 57600, 115200bps, CTS flow control
G.703 interface model
> 120 ohm balanced, RJ45 connector
> 75 ohm unbalanced, BNC coaxial connectors
> Clocking modes: internal, slave-receive
> Support of fractional framed E1 or unframed 2 Mbps

SUPPORTED LAN PROTOCOLS
> IP
> Bridging of other protocols

SUPPORTED WAN ENCAPSULATION PROTOCOLS
Frame-Relay (RFC 1490, RFC2427)
> Maximum number of Frame-Relay DLCIs: 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
> Max WAN speed: 2 Mbps
PPP (RFC1661, RFC1662)
> Synchronous or asynchronous operation
> Support of Chap authentication with MD5 hashing (RFC 1994)
> Max WAN speed: 2 Mbps
X.25
> Maximum number of X.25 SVCs: 5
> Max WAN speed: 128 kbps

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)

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

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

MAINTENANCE AND MANAGEMENT SUPPORT
> Local console (command line interface or interactive interface)
> TELNET (command line interface or interactive interface)
> TFTP configuration download
> TMA (Telindus Maintenance Application)
> HTTP web interface
> PING
> SNMP Mib2, private Mib
> Software flash download
> TMA CLI stand-alone command line console software*
> TMA Element Management software*
> TMA for HP OV management integration in HP Openview*

ADDITIONAL FEATURES
> NAT (Network Address Translation) Dynamic or static IP address conversion
> PAT (Port Address Translation)
> DHCP server, relay agent
> Numbered/unnumbered WAN Interface
> L2TP tunneling
> Diffserv COS

FRONT PANEL
> PWR: power
> LOS/AIS: physical link indication of serial interface
> 103/TXD: WAN Layer2 status/ data sent to WAN
> 104/RXD: data received from WAN
> LAN/TXD: Ethernet status/ data sent to LAN
> LAN/RXD: data received from LAN
> COL: collision on LAN

POWER REQUIREMENTS
> 7.5 Vdc, 750 mA with external power adapter
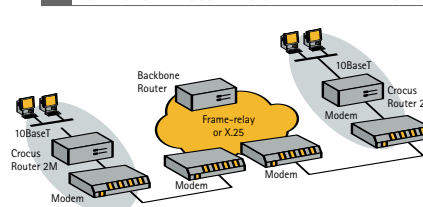> External power adapters available for 24/48Vdc and 230Vac

      * optional

POINT-TO-POINT ROUTER CONNECTION
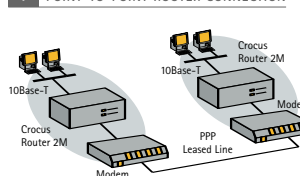
Finally the Crocus 2M Router is equipped with flash memory. As supplementary features become available, the end-user can download free product upgrades.

CONNECTION THROUGH X.25 OR FRAME RELAY BACKBONE

SALES CODES
> **167317** Crocus ROUTER 2M G703 230VAC
> **167318** Crocus ROUTER 2M RS-530 230VAC
> **167319** Crocus ROUTER 2M V.35 230VAC
    (includes V.35 DTE adapter cable)
> **167320** Crocus ROUTER 2M X.21 230VAC
    (includes X.21 DTE adapter cable)
> **167321** Crocus ROUTER 2M V.36 230VAC
    (includes V.36 DTE adapter cable)
Units without power module and separate power adapters can be found in the sales codes quick reference.