

CROCUS FO45M

> THE CROCUS FO45M IS A HIGH-SPEED MODEM DESIGNED FOR CONNECTING END-USER EQUIPMENT USING OPTICAL FIBRE.

Thanks to the field-exchangeable fibre modules, the Crocus FO45M can be used for almost any type of fibre medium, ranging from short-haul multi-mode fibre, to the long-haul single-mode fibre connection. When using a long-haul module, distances of over 70 km can easily be covered.

The Crocus FO45M allows the user to connect at speeds up to 45 Mbps, and can be terminated on almost any type of data interface. Not only traditional serial interfaces like V.35, V.36, RS-530 and X.21, but also G.703 E1 (transparent 2Mbps or with G.704 framing), G.703 E3 (34 Mbps), G.703 T3 (45 Mbps), HSSI (High Speed Serial Interface) and direct Ethernet 10/100Base-T connections with integrated bridge or router functionality are available. It is possible to combine different types of interfaces on the two sides of the communication link, eliminating the need for external interface conversion. All these interface boards can be exchanged in only a few seconds, so flexibility is maximised. The actual speed of the connection can be configured in multiples of 64 kbps (up to 2Mbps), in multiples of 2 Mbps (up to 10 Mbps), or for 34 and 45 Mbps. This makes the equipment well suited for offering multiple user-speeds in carrier access environments.

For critical connections, it is possible to create 100% redundancy on the optical link by inserting a second optical interface into the Crocus FO45M. This creates a complete 1-to-1 backup of the physical connection.



For large concentration sites, rackmount versions are mounted in a CN4 cardnest and can offer densities of up to 30 modems per nest. Both 230/115 Vac and direct 24/48 Vdc powering can be used.

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.

FEATURES & BENEFITS

- > MODEM FOR FIBRE OPTIC CONNECTIVITY UP TO 45 MBPS
- > WIDE RANGE OF EXCHANGEABLE FIBRE OPTIC MODULES FOR MULTI-MODE AND SINGLE-MODE FIBRE
- > MULTIPLE EXCHANGEABLE DATA INTERFACES FOR CONNECTIVITY TO ANY TYPE OF APPLICATION
- > FULLY MANAGEABLE USING FREE MAINTENANCE SOFTWARE (TMA®)
- > OPTIONAL REDUNDANCY ON THE OPTICAL LINK

AVAILABLE OPTIC MODULES

- > Direct SC/PC or ST/PC connectors*
- > Multimode or single mode modules
- > Dual fibre or single fibre modules
- > Up to 70 km
- * Note: SC/PC to FC/PC and FC/APC adapter cables (male/male) are also available

USER SPEEDS

- > Internal clocking: Nx64 kbps (up to 2 Mbps)
Nx2 Mbps (up to 10 Mbps)
34 Mbps
45 Mbps
- > Slave/Receive clocking: Nx64 kbps (up to 2 Mbps)
Nx2 Mbps (up to 10 Mbps)
34 Mbps
45 Mbps
- > External clocking: Nx32 kbps (up to 10 Mbps)
34 Mbps
45 Mbps

AVAILABLE APPLICATION INTERFACES

- > V.35, V.36/RS-449, X.21, RS-530/RS-530A: up to 10 Mbps
- > V.24/RS-232: up to 128 kbps
- > G.703 E1: 2 Mbps (E1 or FE1) fixed
- > Quad G.703 E1: 4 x 2 Mbps (E1) fixed
- > Ethernet IP Router 2M: up to 2 Mbps
- > Ethernet IP Router 10M: up to 10 Mbps
- > G.703 E3/T3: 34 or 45 Mbps fixed
- > HSSI: up to 45 Mbps

FRONT PANEL

- > Testloops
AL: Analogue Loop
RDL: Remote Digital Loop
DL: Local Digital Loop
EI: Error Test generator (test pattern 215-1)



CLASS 1 LASER PRODUCT LASER RADIATION:
AVOID EXPOSURE TO THE BEAM
To avoid possible eye damage, do not view into an uncovered optical module when the equipment is operational.

> Indications

- PWR: Power
- TST: Test indicator (circuit 142)
- ERR: Bit Error Indicator (Error test) - AIS for G.703
- DCD A: Data Carrier Detect for fibre module A (circuit 109)
- DCD B: Data Carrier Detect for fibre module B (circuit 109)
- TXD: Transmit data (circuit 103)
- RXD: Receive data (circuit 104)

SUPPLEMENTARY FEATURES

- > The modem has a flash memory to allow firmware upgrades
- > Maintenance of local and remote modem with free Windows® software
- > Integrated network management module for HP OpenView®
- > Optional Second optic module for redundancy

MECHANICAL DATA (H X W X D)

- > Desktop versions: 50 x 200 x 350 mm weight: 1.4 kg
- > Rack-mount versions: 235 x 20 x 300 mm weight: 1 kg

POWER REQUIREMENTS

- > Desktop versions 230Vac +/-10% 50-60 Hz: 60 mA
115Vac +/-10% 50-60Hz: 120 mA
24/48Vdc (18Vdc - 72Vdc): 160 mA
- > Rack-mount version 48Vdc (36Vdc - 72Vdc): 180 mA

SALES CODES: BASIC UNITS (REQUIRES ADDITIONAL MODULAR DATA AND FIBRE INTERFACE)

- > 171277 Crocus FO45M TT BU 230V
- > 171278 Crocus FO45M TT BU 24/48V
- > 171279 Crocus FO45M TWIN-CV BU

SALES CODES: INTERFACES

- > 154404 G703 intf. Crocus SDSL-F0
- > 163369 4E1 Intf. Crocus
- > 171280 E3/T3 Intf Crocus FO45 BNC

All other transparent data interface and fibre modules are found in the sales codes quick reference section

V MODULAR INTERFACES



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