

1035 ORCHID



> THE 1035 ORCHID IS A NETWORK MANAGEMENT MEDIATION DEVICE (OR MANAGEMENT CONCENTRATOR) FOR CONNECTING EQUIPMENT WITHOUT BUILT-IN IP PROTOCOL STACK TO THE NETWORK MANAGEMENT SYSTEM (NMS).

It is available as a desktop or as a card for the card nest CN4.

The 1035 orchid collects management information from the managed equipment and translates it into a number of IP based protocols: SNMP, TELNET, HTTP or PING. This is called IP proxy functionality.

The 1035 orchid can also encapsulate the Telindus proprietary CMS2 (Card nest Management System) protocol into UDP/IP packets. TMA, TMA CLI, TMA Inventory management, TMA path management and TMA for HP OpenView® communicate in this way with the 1035 orchid. Advantages of this approach are the efficient use of the available bandwidth and delivery confirmation.

Because the 1035 orchid integrates a multi-port router architecture, it can support different types of IP encapsulation when forwarding the management information to the Network Management System: MAC encapsulation over Ethernet, PPP, Frame Relay and ATM.

For this purpose the 1035 orchid accommodates a synchronous serial port (up to 10 Mbps), two G.703/G.704 interfaces, a 10/100Base-T Ethernet Interface and an auxiliary asynchronous port. The two channelised E1 (G.703/G.704) interfaces offer the possibility to transport the management information over 64 kbps time-slots of a SDH/PDH infrastructure. The unit also features a high-speed port for connecting to the network management bus of the card nest CN4.

Therefore, the 1035 orchid can be integrated in almost any network architecture without having to build a



separate overlay network for network management. The 1035 orchid is typically installed at the access concentration point and can control all central and remote customer premises equipment.

FEATURES & BENEFITS

- > NETWORK MANAGEMENT CONCENTRATOR WITH SUPPORT FOR G.703/G.704
- > CONTROLS ALL CENTRAL AND REMOTE EQUIPMENT
- > SUPPORT OF IP PROXY FUNCTIONALITY
- > SUPPORT OF FRAME-RELAY, ATM, IP AND SDH/PDH BACKHAUL NETWORKS

I/O PORT FUNCTIONALITY

- High-speed ports (HS)
- > Number of port: 1
 - > Connector: RJ45
 - > Max speed: 800 kbps
 - > Usage:
 - > Connect the 1035 orchid to a card nest. Up to 7 card nests can be connected in cascade to one 1035 orchid
- Aux port
- > Number of ports: 1
 - > Connector: DB9 female, DTE
 - > Electrical: V.24/RS-232
 - > Max speed: 115200 bps, async
 - > Usage: Connection of desktop network elements
 - > Connection of Orchid DM
- Serial port
- > Number of ports: 1
 - > Connector: DB25 female, DTE
 - > Electrical: RS-530/RS-232
 - > Max speed: 10 Mbps sync (Nx 64kbps), 115200 bps async
 - > Usage: Connect to frame relay, PPP (Sync or async) or ATM backhaul network
- G.703/G.704 ports
- > Number of ports: 2
 - > Connector: RJ45, DTE
 - > Electrical: G.703, 120 ohm
 - > Max speed: 2048 kbps, framed or unframed
 - > Usage: Connect to PDH/SDH backhaul network
- Control port
- > Number of ports: 1
 - > Connector: DB9 female, DCE
 - > Electrical: V.24/RS-232
 - > Max speed: 9600 bps async
 - > Usage: Local management of the 1035 orchid using VT100 terminal or TMA
- Ethernet port
- > Number of ports: 1
 - > Compliant with IEEE 802.3 10Mbps HDX/FDX Ethernet
 - > Compliant with IEEE 802.3u 100Mbps HDX/FDX Ethernet
 - > 10/100Mbps auto-sense
 - > RJ45 Unshielded Twisted Pair (UTP)
 - > Usage: Connect to an IP LAN network

IP PROXY SUPPORTED PROTOCOLS

- > SNMP V1:
 - > MIB2
 - > private MIB
 - > traps
- > HTTP web server functionality
- > TELNET server
- > PING
- > TFTP
- > FTP

SUPPORTED IP ENCAPSULATION PROTOCOLS

- > MAC encapsulation over Ethernet
- > Frame-Relay (RFC 1490, RFC 2427)
 - > Support of multiple DLCI's (PVC)
 - > Support of LMI (revision1, ANSI T1.617, ITU-T)
 - > Support of Inverse ARP over Frame-Relay for automatic gateway configuration
 - > Support of multilink Frame-Relay (FRF15)
- > PPP (RFC 1661, RFC 1662)
 - > Synchronous or asynchronous operation
 - > Support of Chap authentication with MD5 hashing (RFC 1994)
 - > Support of multilink PPP (RFC 1990)
- > ATM
 - > Framed (G.704) or unframed operation
 - > Supports up to 32 ATM PVCs

ACCESS SECURITY

- > Extended access lists
- > Password protection
- > Encrypted management protocol

IP ROUTING

- > Please consult IP routing features as stated for the 1030 router family

FRONT PANEL INDICATORS

- > PWR: Power
- > G703 1 / LNK: first G703 interface status
- > G703 1 / ACT: first G703 WAN protocol status
- > G703 2 / LNK: second G703 interface status
- > G703 2 / ACT: second G703 WAN protocol status
- > RS530 / LNK: RS530 interface status
- > RS530 / ACT: RS530 WAN protocol status
- > LAN / ACT: LAN status
- > LAN / COL: LAN collision detect

MECHANICAL DATA (H X W X D)

- > Desktop version: 45 x 220 x 235 mm Weight: 800 g
- > Card version: 20 x 235 x 300 mm Weight: 1 kg

POWER REQUIREMENTS

- Desktop version:
- > Standard with 230Vac/9 Vdc, 1 A EUR external adapter
 - > Other external power adapters available for 48Vdc and 230Vac
 - > Max power dissipation for 230Vac adapter: 9W
- Card version:
- > 36 - 72 Vdc 9W

SALES CODES

- > 177468 1035 Orchid desktop 230VAC
- > 180330 1035 Orchid Card Version (CN4)