

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)

1035 ORCHID

The 1035 Orchid is available as a desktop or as a card in the CN4 chassis.

The 1035 Orchid collects management information from TDM 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 proprietary CMS2 (Card nest Management System) protocol into UDP/IP packets. TMA, TMA CLI, TMA Inventory management and TMA Element Management 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 10/100 Base-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 management. The 1035 Orchid is typically installed at the access concentration point and can control all central and remote customer premises equipment.

FEATURES AND BENEFITS

- Network Management Concentrator with direct G.703/G.704 interface to the network
- Controls all central and remote TDM equipment
- IP Proxy functionality
- Connect to Frame Relay, ATM, IP and SDH/PDH backhaul networks



1035 ORCHID SPECIFICATIONS

I/O Port Functionality

High-speed ports (HS)

- Number of ports: 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 a 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 64 kbps), 115200 bps async
- Usage: Connect to Frame Relay or PPP (Sync or async) backhaul network

G.703/G704 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 with Frame Relay, PPP or ATM

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 of TMA

Ethernet port

- Number of ports: 1
- Compliant with IEEE 802.3 10 Mbps HDX/FDX Ethernet
- Compliant with IEEE 802.3u 100 Mbps HDX/FDX Ethernet
- 10/100 Mbps 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

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 PVC's

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
- G.703 1 / LNK: first G.703 interface status
- G.703 1 / ACT: first G.703 WAN protocol status
- G.703 2 / LNK: second G.703 interface status
- G.703 2 / ACT: second G.703 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

- Dimensions: 45 x 220 x 235 mm
- Weight: 800 g

Card version

- Dimensions: 20 x 235 x 300 mm
- Weight: 1 kg

Power Requirements

Desktop version

- Standard with 230 Vac / 12 Vdc, 1 A EUR external adapter
- Other external power adapters available for 48 Vdc and 230 Vac
- Max power dissipation for 230 Vac adapter: 9 W

Card version

- 36 - 72 Vdc 9 W

Sales Code

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

