

Model 2707 Frequently Asked Questions

Applications

What are the applications for the Model 2707?

Access for Point-to-Point Digital Leased Lines

Enabling the enterprise customer to cost effectively connect their routers, multiplexers, or PBXs to central or remote sites using Clear Channel G.703 services.

Dedicated Internet Access. An ISP uses E1 to deliver high speed Internet traffic from a Point-of-Presence (POP) to a customer premise. An NTU is used at each end of the link and converts the E1 to a serial interface format for use by a router or multiplexer.

LAN-to-LAN Bridging - The Model 2707/I connects remote LANs using standardized G.703 services. A 2707/I is placed at a remote location and another 2707/I, or a router, at a central location MAC and PPP bridging in the 2707/I provide seamless LAN-to-LAN connection over the E1 network.



Configuration and Features

Is the Model 2707 available in rack card and standalone versions?

Yes, the 2707 is offered in a compact standalone unit, as well as in high density rack cards.

How is the 2707 different from the Model 2703?

The Model 2707 is a more compact and economical unit. The 2703 is offered in a bigger size package and includes an internal power supply, in addition the 2703 units offers rate adaptation for the connection of DTEs at speeds below 2.048Mbps (256, 512, and

1024kbps). The model 2707 is a plug and converter for the connection of synchronous ports at 2.048Mbps data rate.

Do I need special cables to connect to the 2707?

No, the 2707 is equipped with industry standard interfaces, saving the user the extra cost associated with non-standard cables. The model 2707/C, V.35 version, uses a female M/34 (Winchester) connector. The Model 2707/D, X.21 version, uses a female DB-15 connector, and can be configured as DCE or DTE. The 10Base-T version, model 2701/I, uses an RJ-45 connector.

How is the 2707 configured?

The Model 2707 is configured via DIP- switches located on the underside of the unit. Additionally rack cards are configured and managed via 1001MC and SNMP/HTTP.

What is required for rack card SNMP Management?

The Patton's 1001 rack system allows SNMP management of G.703 (Models 2707RC and 2701RC) or xDSL cards via a proxy agent card, Model 1001CC management card. The Model 1001MC connects to a Ethernet LAN via its 10-BaseT port, and can be accessed through the internet from any location in the world. Up to 13 2707 cards can be managed per rack, and a total of 120 cards or 8 racks cards can be managed cascading a single 1001MC card with 1001CC control cards.

What Clock Modes are supported?

Internal, External, and Network Clock. The model 2707 is factory configured for network clock that is used in most G.703 NTU applications.

What Line coding Options are supported by the Model 2707?

The Model 2707 supports AMI (Alternate Mark Inversion) and HDB3 (High Density Bipolar of Order 3) line codes. The Model 2707 is configured for HDB3 at the factory.

Does the Model 2707 support framed G.703 (G.704)?

The Model 2707 is a Clear Channel 2.048Mbps unit. It transports framed or unframed G.703 voice and data. For framed G.703/G.704 services use the Model 2701.

What Network interfaces do the 2707 support?

The 2707 offers both RJ-48C (120 ohm) and dual BNC (75 ohm) connectors for the X.21 and Ethernet versions of the product. The V.35 version offers RJ-48C connector only.

What DTE interfaces do the 2707 support?

The Model 2707 supports single DTE interfaces and comes in three versions: V.35 (M34 connector), X.21 (DB-15 connector), and 10Base-T (RJ-45 connector).

Can the serial interfaces be configured as DTE or DCE?

The X.21 interface can be configured as DTE or DCE, the V.35 interface is a fixed DCE port.

What diagnostics are offered with the 2707?

The Model 2707 offers V.54 compliant Local Loopback that can be activated via switches or via serial interface (V.35).

What distance does the Model 2707 reach?

The Model 2707 reaches a maximum distance of 1.6km over 24AWG twisted pair wire.

What are the power the supply options for the Model 2707?

The Model 2707 standalone offers options for 120VAC, 240VAC, or -48VDC. The rack version, which is housed in Patton's 1000 and 1001 rack systems, operates at 5VDC provided internally by 120/230 VAC or -48VDC rack power supplies.

Does the 2707 ship with DTE and Network cables?

No, the 2707 ships with user's manual and power supply, no DTE or network cables are included.

What certifications does the Model 2707 carry?

The Model 2707 complies with ITU-T recommendation G.703, and it is tested in accordance with CTR-12 and FCC part 15. The Model 2707 is CE marked.