



Co-Directional G.703 Converters

Model 2070 Series

Plug-In Access Converter for G.703/64 kbps!

Bi-Directional Conversion

Converts V.24, X.21 or V.35 to G.703/64k co-directional

Synchronous Operation

At 64 kbps

Clocking Options

Internal, external, or network timing

Point-to-Point Distance

Up to 5250 ft (1600m) on 24 AWG (.5mm) twisted pair

Built-in Features

Surge protection and transformer isolation

CCITT/ITU Compliant

G.823 Jitter Control Specifications

The Patton Model 2070 Series interface converters allow a router-or similar WAN device-with a V.24 (RS-232), V.35 or X.21 port to connect to a G.703/64k co-directional (PCM) network. Offering switchable internal, external or network clocking options, the Patton Model 2070 Series converters support bi-directional, synchronous communication at a data rate of 64 kbps. The Patton Model 2070 Series includes three variations: The Model 2070/AM plugs directly into an RS-232 DTE, and is equipped with a male DB-25 connector. The Model 2070/CM plugs directly into a V.35 DTE, and is equipped with an M/34 male connector. The Model 2070/DM plugs into an X.21 DTE, and is equipped with a male DB-15 connector at the end of a 6" (15.25cm) cable. All versions come with an RJ-45 jack for 120 ohm twisted pair network termination (termination to a 75 ohm network can be accomplished using the Patton Model 460 balun).

Patton Model 2070 Series converters incorporate local loopback and G.703 loopback diagnostic modes. Diagnostic modes are controlled by a switch, or by the local DTE (V.24 or V.35 versions only). Rear panel LED indicators monitor Test Mode and Synchronization. Synchronous clock jitter is attenuated in accordance with the G.823 specification. For protection against ground loops and transient surges, the Patton Model 2070 Series converters incorporate both transformer isolation and surge protection.

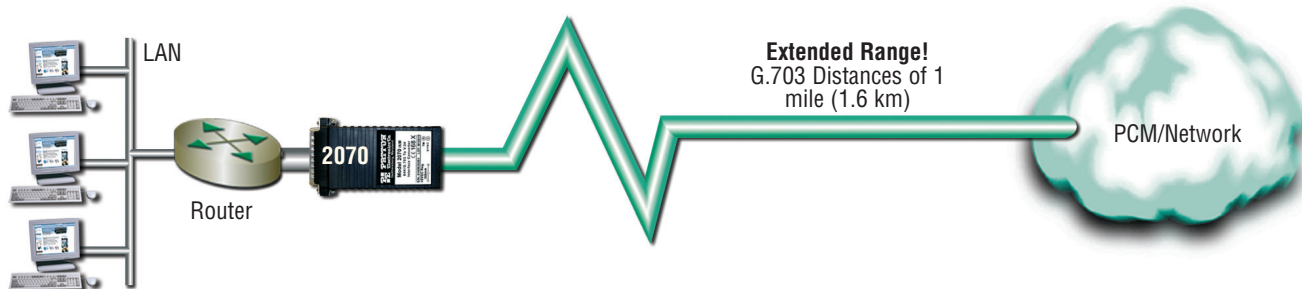
Power is supplied to the Patton Model 2070 Series converters by an external power supply. When used in a point-to-point environment, distances up to 5250 feet (1600m) are attainable using two 24 AWG (.5mm) twisted pairs.

For more information, visit us at www.patton.com.



Application

The Patton Model 2070 Series is the perfect solution for connecting a router or other WAN device to a 64 kbps G.703 network: Their small size allows the Patton Model 2070 Series converters to plug directly into a DTE port, almost like a cable—they have no “footprint” at all! Besides their ultra-compact size, the Patton Model 2070 Series converters are also available in three DTE interface types—V.24 (DB-25), V.35 (M/34) and X.21 (DB-15)—for easy adaptation to the myriad of brands and models in the WAN hardware marketplace. Whatever 64 kbps G.703 connection you need to make, there’s likely a Patton Model 2070 Series converter that will plug right in! (These converters will operate point-to-point, too.)



Specifications*

Applications

64k/G.703 co-directional PCM network or CSU/DTE conversion to CCITT/ITU V.24, CCITT/ITU V.35, or CCITT/ITU X.21

G.703 Interface

Symmetrically balanced pairs, 4 wire, 120 Ohm terminated to female RJ-45

Operating Speed

Co-directional timing, Rx recovered: 64kbits + 500ppm

Clocking

Internal, External or Network Timing

G.703 Input Signal Level

2.0V differential, into 120 Ohms, nominal

Max. Cable Loss

0 to -10dB

Line Encoding

AMI

Jitter Performance

CTR 14, G.823

Surge Protection

Device Response Time = 100ns; Clamp Voltage = 8.5V ±11V

Isolation

1500 VRMS isolation, transformer coupled

Indicators

LED's monitor TM and SYNC

Power Requirements

5VDC @ 300mA, supplied by external transformer or on these DTE pins: pin 9 (V.24), pin KK (V.35), pin 15 (X.21)

Temperature Range

32-140°F (0-60°C)

Dimensions

Model 2070/AM 4.90" x 2.00" x 0.73" (12.45 x 5.08 x 1.85 cm);

Model 2070/CM & 2070/DF 3.40" x 2.00" x 0.73" (8.63 x 5.08 x 1.85 cm)

* Specifications subject to change without notice.

Ordering Information

2070/AM/120	G.703 TO RS232, DB25M DCE
2070/AM/UI	G.703 TO RS232, DB25M DCE
2070/CM/120	V.35 TO G.703 INTERFACE CONVERTOR
2070/CM/48	V.35 TO G.703 INTERFACE CONVERTOR
2070/CM/UI	V.35 TO G.703 INTERFACE CONVERTOR
2070/DF/120	G.703 TO X.21 DB15F DCE
2070/DF/48	G.703 TO X.21 DB15F DCE
2070/DF/UI	G.703 TO X.21 DB15F DCE

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07M2070-DS2

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