

NETLINK™ ACCESS PRODUCTS

These fiber optic modems provides G.703/G.704 network extension at distances up to 2.5 km (1.5 miles) for the Model 1186, and up to 50 km (31 miles) for the Model 1193

Fiber Optic G.703 Network Extension

Models 1186 & 1193 Fiber Optic Modems

The NetLink Models 1186 multi-mode and 1193 single-mode fiber optic (FO) modems are low cost alternatives to leasing G.703 service when connecting remote locations. A pair of NetLink 1193s, located up to 50 km (31 miles) apart, deliver 2.048 Mbps Clear Channel data across a single strand of fiber. For distances up to 2.5 km (1.5 miles), the Model 1186 multi-mode modem is an economical alternative.

Both modems deliver unframed and framed G.703 data, and are protocol transparent. They include internal, external, or receiver recovered clocking options; AMI/HDB3 line coding options; and V.54 and V.52 compliant diagnostics. In addition the modems provide built-in 120-ohm (RJ-48C) and 75-ohm (dual-BNC) interfaces that can be connected to the G.703 interface of a CSU/DSU, multiplexer, or base station. The Model 1186 is available with ST or SMA FO connectors, while the Model 1193 comes with FC or SC connectors. Both models are also available in a rack-mountable package for use in Patton's NetLink 1001 2U rack chassis. For additional information, visit us at www.patton.com.

Single-Fiber, Full-Duplex
Connects over a single-mode or multi-mode fiber for full-duplex operation

G.703—Twisted Pair or Coax
Both modems have RJ-48C (120-ohm) and dual BNC interface connectors (75-ohm)

Framed or Unframed Data
Both models carry G.703, and are transparent to structured G.704 data

Standalone or Rack Solutions
Choose the standalone configuration or the high density racks complete with redundant power supplies

Power it Anywhere
Universal input 100–240 VAC and -48 VDC power supply options

Fully Certified
Complies with all applicable Telecom standards



Why use our fiber optic modems?

Key Features	Customer Benefits
Full duplex over a single fiber optic line	Maximum utilization of costly fiber bundles
Small desk-top or rack card solutions	Higher density in smaller spaces
120 Ω (RJ-48C) and 75 Ω (Dual-BNC) connectors	Flexible network connections increase reliability
Built-in diagnostics (V.54 and V.52 compliant)	Troubleshoot and diagnose problems on the spot and ensure network reliability.
100–240 VAC or -48 VDC power options	Universal power supply options make installation and operation a snap

The Patton models 1186 and 1193 offer a variety of features that make them unique and the best solution for G.703 network extension.

Specifications



Model 1186/1186RC

Model 1193/1193RC

	Multi-mode	Single-mode
Fiber Type	Multi-mode	Single-mode
Fiber Interface	ST or SMA	SC or FC
Optical Transmitter	LED (850nm)	LASER (1310nm)
Link Budget	7.5dB (62.5 micron)	15dB (9.0 micron)
Coupled Power	-10 dBm	-6 dBm
Line Rate	2.048 Mbps	
G.703 Interface	RJ-48C (120 Ω) and dual BNC (75 Ω)	
Line Coding	AMI or HDB3	
Line Framing	Unframed G.703, transparent to G.704	
Clocking	Internal, external, or network	
Diagnostics	Local/Remote loops. 511 and 511E BERT	
Compliance	CE Mark, G.703, CTR-12	
Temperature	32 to 122°F (0 to 50°C)	
Power Options	100–240 VAC Universal Interface or -48 VDC	

Ordering Information

1186/ST/UI	Multi-mode fiber (MMF) modem; ST fiber optic (FO) connector, G.703 interface; 100–240 VAC supply
1186/SMA/UI	MMF modem; SMA FO connector, G.703 interface; 100–240 VAC supply
1186/ST/48	MMF modem; ST FO connector, G.703 interface; -48 VDC supply
1186/SMA/48	MMF modem; SMA FO connector, G.703 interface; -48 VDC supply
1186RC/ST	MMF modem rack-card; ST FO connector, G.703 interface
1186RC/SMA	MMF modem rack-card; SMA FO connector, G.703 interface
1193/FC/UI	Single-mode fiber (SMF) modem; FC FO connector, G.703 interface; 100–240 VAC supply
1193/SC/UI	SMF modem; SC FO connector, G.703 interface; 100–240 VAC supply
1193/FC/48	SMF modem; FC FO connector, G.703 interface; -48 VDC supply
1193/SC/48	SMF modem; SC FO connector, G.703 interface; -48 VDC supply
1193RC/FC	SMF modem rack-card; FC FO connector, G.703 interface
1193RC/SC	SMF modem rack-card; SC FO connector, G.703 interface



7622 Rickenbacker Drive
 Gaithersburg, MD 20879 USA
 Phone +1-301/975-1000
 Fax +1-301/869-9293
 E-mail marketing@patton.com
 URL <http://access.patton.com>