

NETWORK EXTENSION PRODUCTS

The Patton Model 1194 Fiber Optic Multiplexer enables extension of four T1/E1 connections to distances up to 25km over one strand of fiber

Fiber Optic T1/E1 Extension

Patton Model 1194 Single-Mode Fiber Multiplexer

The Model 1194 is a Quad Channel Fiber Optic Multiplexer that extends T1 or E1 connections over fiber with distances to 25 km. Using LASER optics and a unique high-speed switching technique, the Model 1194 transparently carries framed or unframed T1 or E1 connections over one Single Mode fiber.

Carriers and service providers use the 1194 for simple extension and distribution of up to four E1 or T1 connections from a telco Central Office to a Point-of Presence (POP), or in cellular telephony applications connecting remote cell sites to local telephone exchanges. Enterprise customers use the 1194 to extend the reach of E1/T1 leased lines from the telco demarcation line to on-campus buildings.

The Model 1194 is offered in two versions: the 1194/E1 connects to G.703 (E1) circuits with selectable AMI/HDB3 line coding, while the model 1194/T1 version connects to T1 circuits using AMI/B8ZS coding, and LBO (Line Build Out) options. Both versions feature Network, Receive Recovered and Internal clock options, all features are easily configured via dip switches. Built-in V.54/V.52 compliant diagnostics are accessible via front panel switches allowing quick testing and troubleshooting of fiber and network links. For additional information please visit us at www.patton.com.

4 T1/E1 Network Ports
Transparently extend and distribute up to 4 T1/E1 connections

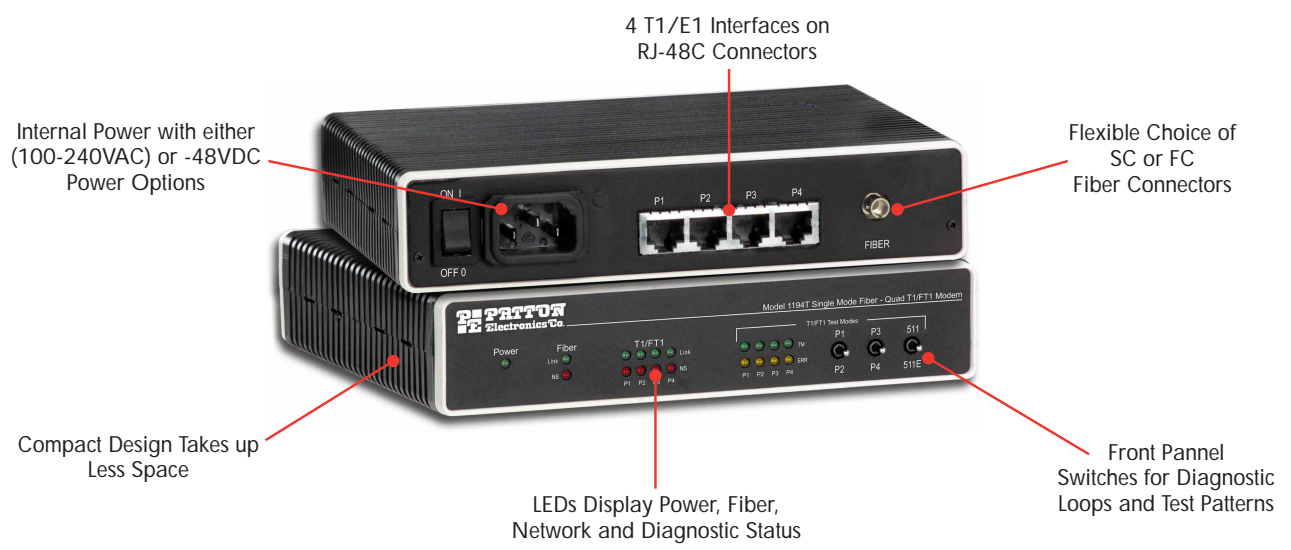
Single Fiber, Full Duplex
High speed single fiber link for full duplex, noise free T1/E1 network extension up to 25km

SC or FC Fiber Interface Options
Easily connect to industry standard Single-mode fiber interfaces

Full Set of Diagnostic Features
Built-in Local and Remote Loops, 511/511E test patterns make installation and testing a snap

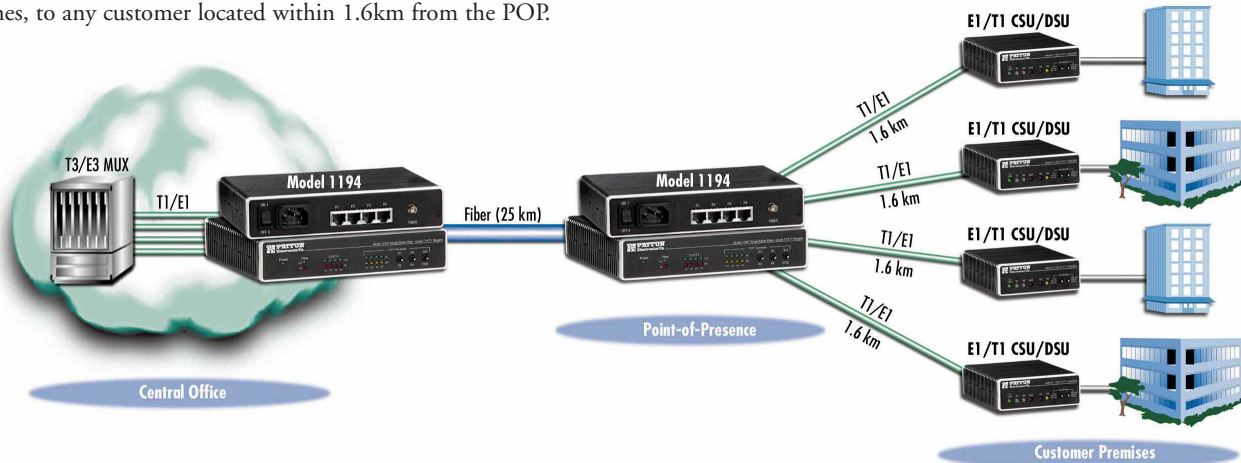
Power it Anywhere
Universal input AC (100-240VAC), and 48VDC (36-60) power supply options

Fully Certified
Complies with telecom, safety, and LASER standards



Application - Business Park POP (Point-of-Presence)

At the Central Office, the Model 1194 connects directly, to E3/T3 muxes, DACs, or ADM devices, and transparently carries up to 4 framed or unframed T1/E1 signals multiplexed over a fiber link to a distant POP. A remote Model 1194 recovers the optical signal, demultiplexes and delivers the E1 or T1 signals to each of four ports. A service provider can now deliver voice or data services, via E1/T1 lines, to any customer located within 1.6km from the POP.



Specifications



1194/T1



1194/E1

Network Interface	T1	E1
Network Line Rate	1.544Mbps	2.048Mbps
Network Line Code	AMI/B8Zs	AMI/HDB3
Network Interface	RJ-48C	
Network Port Reach	1.6km (1 mile)	
Framing (Network)	Transparent to T1 or G.704 framing	
Fiber Connector	SC or FC	
Optical Transmitter	LASER (1300nm)	
Fiber Type	Single Mode (9/125 micron)	
Fiber Link Budget	13dB	
Clocking	Internal, Network, Receiver Recovered	
Diagnostics	Per-port Local/Remote Loops, 511/511E BERT	
Power	Universal Input (100-240VAC) or -48VDC (36-60VDC)	
Temperature	32-122F (0-50C)	
Dimensions	7.3W x 6.6D x 1.62H in. (185W x 168D x 41Hmm)	
Compliance	FCC Part 15, FCC part 68, CTR12, CE	
Electrical Safety	UL1950	
Laser Safety	21CFR 1010 and 1040, Class 1 LASER	



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>