

T1/E1/Sync. Serial Converters & Bridges

OnSite 2701A T1/E1 to Ethernet Bridge (NTU) | Converts E1 or Fractional E1 to bridged to Ethernet



The Patton Model 2701A/I both terminates T1/E1 and Fractional T1/E1 services and provides the conversion of T1/E1 to 10/100BaseTX Ethernet.

Overview

The OnSite™ Model 2701A/I T1/E1 to Ethernet Bridge is the ideal solution for connecting any small to medium enterprise or remote office to an IP/Internet network using a standard T1/E1 interface.

The Model 2701A/I terminates T1 & E1 services for all n x kbps to 2.048 Mbps rates for simple connection to a router. Flexible clocking modes, AMI/HDB3 & AMI/B8ZS coding, V.52/V.54 diagnostics and more make the 2701A/I one of the most versatile NTU's available.

The Model 2701A/I comes with an auto-sensing full-duplex 10/100Base-T Ethernet port, cross-over switch, and internal power supply. The Model 2701A/I is equipped with an integrated T1/E1 CSU/DSU for connection to full and fractional T1/E1 services.

AC or DC power options make installing the Model 2701 into your network infrastructure a snap.

Applications



Features

- **Connect Legacy T1/E1 to Ethernet**—Simple conversion of E1 or Fractional E1 to bridged to Ethernet. No configuration required.
- **Supports 75 or 120-ohm E1 Lines**—Both BNC and RJ-48C connectors are provided so there is no requirement for external conversions such as a balun
- **Eliminate Routers**—Bridge Ethernet across the WAN using industry standard PPP/BCP
- **10/100 Ethernet with MDI-X**—Built-In communication crossover switch eliminates the confusion of straight through or cross over Ethernet cables.
- **Power it Anywhere**—Universal input AC (100-240V) and DC (-48V) power supply options
- **Designed and Manufactured in the USA**—Top notch quality and reliability

Specifications

T1/E1 Interface	<ul style="list-style-type: none"> • 1 x 120-Ohm RJ48C (RJ45) connection over twisted pair • 1 x 75-Ohm BNC connection over coax • Line Rate 1.544 Mbps (T1); 2.048Mbps (E1) • DSX-1 levels for connection to local T1/E1 device (PBX) • Line Coding AMI/B8ZS (T1); AMI/HDB3(E1) • ESF coding and framing (T1)
Ethernet Interface	<ul style="list-style-type: none"> • 1 x 10/100 Auto-Sensing • Built-in MDI-X cross-over switch • IEEE 802.1d transparent learning bridge up to 1,024 addresses
LED	<ul style="list-style-type: none"> • Power • E1/T1 Link • E1/T1 Frame • E1/T1 TD and RD • Eth Link • Eth 100M • Eth TX and RX
Management Interface	<ul style="list-style-type: none"> • 1 x RS-232/EIA-561 (RJ45) • Telnet • VT-100 CLI • Web/HTTP • SNMP
Compliance	<ul style="list-style-type: none"> • FCC Part 15A • CE Mark
Temperature	<ul style="list-style-type: none"> • 0 to 50°C (standard)

Shipping

- Dimensions: 16 x 11 x 5 in. (40 x 28 x 13 cm)
- Weight 6 lbs (2.7 kg)

Boxed

- Weight: 2.25 lbs (1.0 kg)

Unit

- Dimensions: 7.3 x 6.6 x 1.62 in. (18.5 x 16.8 x 4.1 cm)
- Weight 0.8 lbs (0.36 kg)

Power	<ul style="list-style-type: none"> • External AC; 100–240 VAC or DC (-48 VDC)
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Ordering

#	Model #	Description	Availability
1	2701A/I/E48	T1/E1 to Ethernet NTU, RJ45/BNC WAN Interface, External 48VDC power supply	End of Life-Notice
2	2701A/I/EUI	T1/E1 to Ethernet NTU, RJ45/BNC WAN Interface, External 100-240VAC power supply	General Availability

+ Accessories

Item Number	Item Description	Price
SVC-SmartCare-BH (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.

SVC-SmartCare-24/7 (/support/support.asp)	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support-professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-AH (/support/support-professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support-professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/howtobuy/) for availability and pricing.

Related Products

IPLink™ Model 2603 (/products/product_detail.asp?id=182)

High Speed T1/E1 Router

Backgrounders

FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf)

October 6, 2017

Certifications

Patton Devices Not Vulnerable to Meltdown and Spectre Side-Channels Attacks (/certifications/Patton-Meltdown-Spectre-Statement.pdf)

January 4, 2018

Declaration of Conformity - 2603, 2621, 2635, 2701A (/certifications/03322D1-001D.pdf)

September 26, 2016

Data Sheets

OnSite™ 2701A/I Datasheet (/datasheet/2701AI_datasheet.pdf)

March 23, 2018

OnSite™ 2701A/I Datasheet (A4 page size) (/datasheet/2701A1-A4_datasheet.pdf)

March 23, 2018

Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)

April 24, 2015

User Manuals & Configuration Guides

OnSite 2701A/I E1/T1 Ethernet Bridge (NTU) User Manual (/manuals/OS2701AI-UM.pdf)

February 26, 2017

OnSite Model 2701A/I E1/T1 Ethernet Bridge (NTU) (/manuals/OS2701AI-QS.pdf)

February 13, 2017

BroadSoft Configuration Guide for SmartNode SmartWare

December 2, 2013

(/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)

White Papers & Success Stories

Patton G.703-to-Ethernet Converters Hit Price/Performance Targets for Jinagsu, China

November 13, 2002

(/whitepapers/Reality_Check_Jiangshu_WideArea_over_E1.pdf)

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- > VoIP IADs (/voip-iad/#products)
- > SIP eSBCs (/session-border-controller/#products)
- > VoIP Appliances (/ip-pbx/#products)
- > SS7 Media Gateways (/ss7-gateway/#products)

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- > Virtual Access Router (/virtual-access-router/#products)
- > VPN Server (/vpn-server/#products)
- > IPv6 to IPv4 Network

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- > Fiber Serial DataCom (RS-232/422/530/188C) (/products/network-connectivity/#27)
- > Ethernet Over Fiber (/products/network-connectivity/#23)
- > Multiplexers & Sharing Devices (/products/network-connectivity/#12)
- > Fiber Telecom (T1/E1/PRI, Analog and ISDN) (/products/network-connectivity/#28)
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