

INDUSTRIAL SOLUTIONS GUIDE

From the Leading Manufacturer of Industrial Connectivity, ProAV & IoT Solutions



Industrial Communications Products Guide

PATTON[®]
Let's Connect![™]

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Introduction

Connecting People and Things

We make it easy for companies to connect their people and things in a perpetually changing technology landscape.

Making Connections

Our mission is to connect real-world customer challenges with high-quality, right-priced technology solutions. Our passion is to help our customers solve problems--and we win their hearts by combining high value products and solutions with unrivaled customer service and technical support.

Managing Change

Technologies converge and networks consolidate; applications; and services diversify, and specialized needs emerge in various vertical markets and geographic locations. What was new becomes old and Patton helps keep the transitions systematic and orderly by focusing on our customer's needs, developing new technologies that drive into the future while maintaining core technologies that can provide the bridge.

Industrial Solutions

Patton develops, manufactures and markets high-quality, durable industrial networking and communication products. We deliver reliable Ethernet, Serial and Telecom infrastructures using rugged designs for extended operating temperatures and safety feature sets. The solutions provide connectivity and communication for automation networks while reliably securing and protecting people and property in hazardous environments

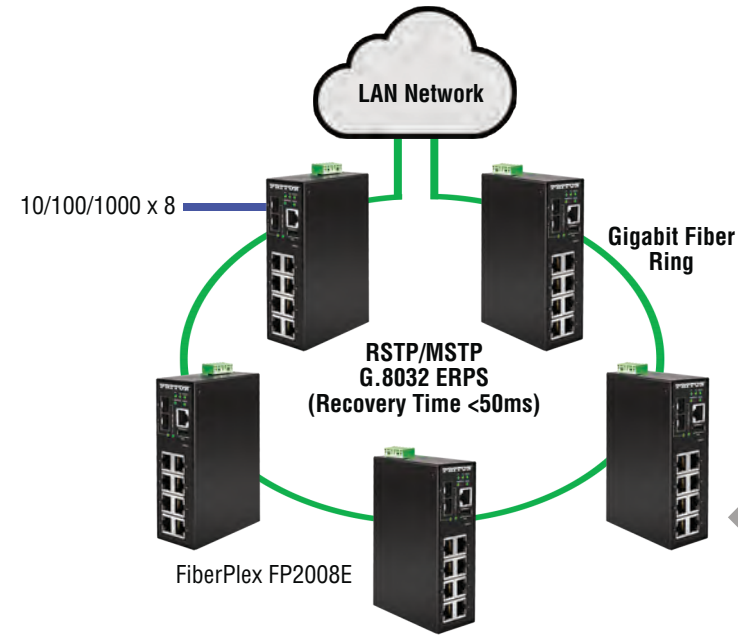
Making Automation and IIoT Work

Our 40-year pedigree in connectivity empowers us to optimize networks for efficient communication between systems, processes, and people. We continuously develop new reliable and innovative industrial networking solutions to keep data moving in industrial environments. In short we make IoT and automation smarter, safer, and efficient.

Industrial Ethernet Switches

Managed Switches

				
	FP2005E/BT	FP2008E	FP2008E/AT	FP2008E/AB
Ethernet LAN Type	10/100/1000			
Ethernet Trunk Type	100/1000			
Total Port Count	7	10		12
Dedicated Copper Ports	5	8		
Dedicated Fiber (SFP) Ports	2			4
Power over Ethernet Ports	4 x 90 W	No	8 x 30 W	4 x 30 W or 4 x 90 W
Switching Layer	Layer 2/3			
IGMP	Snooping/Filtering			
VLAN	Port/MAC/Protocol/Subnet			
QoS	Yes			
Static Routes	IPv4/v6			
Network Redundancy	STP/RSTP/MSTP/LACP/ERPSv1v2			
Config	HTTP(S)/Telnet/SSH/CLI/SNMPv3			
Frame Size	9.6 Kbytes			
MAC Table	8 K			
Packet Buffer	4 Mbits			
VLAN Groups	4095			
IGMP Groups	1024			
Power Input	48–55 VDC	12–48 VDC	48–55 VDC	
Power Consumption (No PoE)	10.8 W	15 W		
Operating Temperature	-40 to 185°F (-40 to 85°C)			
Form Factor	DIN			



Deliver high bandwidth or high-density connections for industrial switching applications. Housed in a sturdy IP30-rated DIN-rail enclosure with wall mount options, the FP2008E is a fully manageable Layer 2 Ethernet switch, pre-loaded with a user-friendly web management console design.

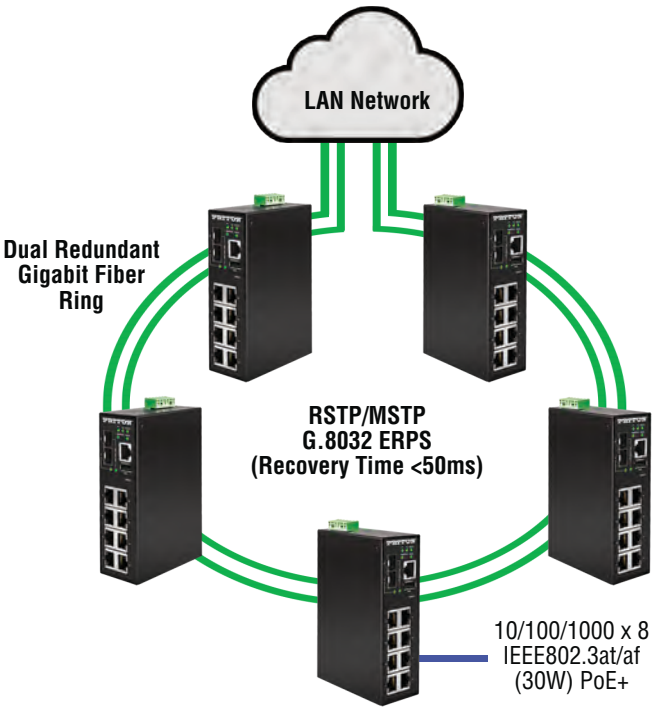
Unmanaged Switches

							
	FP1004E	FP1004EF	FP1005E	FP1008E	FP1008EF/AT	FP1008E/AT	FP1108E
Ethernet LAN Type	10/100/1000				10/100/1000		
Ethernet Trunk Type	100/1000				10/100/1000	100/1000	10G
Total Port Count	6	5	6	10	10		
Dedicated Copper Ports	4			8	8		
Dedicated Fiber (SFP) Ports	2	1		2	2 (GigE)	2	
SFP/TX Combo Ports	0		1	0	—	0	
Power over Ethernet Ports	0	4 x 30 W		0	8 x 30 W		0
Frame Size	10 Kbytes		9.6 Kbytes		10 Kbytes	9.6 Kbytes	
MAC Table	1 K			8 K	1 K	8 K	16 K
Power Input	9–12 VDC	48–56 VDC	12–56 VDC	12–48 VDC	48–56 VDC	48–55 VDC	12–48 VDC
Power Consumption (No PoE)	10 W	4.8 W	5.8 W	10 W	10 W	15 W	16 W
Operating Temperature	14 to 104°F (-10 to 40°C)	-40 to 167°F (-40 to 75°C)		-40 to 185°F (-40 to 85°C)	-40 to 167°F (-40 to 75°C)	-40 to 185°F (-40 to 85°C)	
Form Factor	Desktop	Flatmount	DIN		Flatmount	DIN	

Deliver high-bandwidth or high-density industrial networking solutions using a moderate bandwidth gigabit fiber trunk for power/utilities, water/wastewater treatment, oil/gas/mining, process control automation, security access control systems, and intelligent transportation systems. Unmanaged switches offer the benefits of lower cost and ease of use.

PoE Switches

						
Ethernet LAN Type	10/100/1000					
Ethernet Trunk Type	10/100/1000		100/1000			
Total Port Count	5	10	7	10	12	
Dedicated Copper Ports	4	8		5	8	
Dedicated Fiber (SFP) Ports	1	2 (GigE)		2	4	
Power Over Ethernet Ports	4 x 30 W	8 x 30 W		4 x 90 W	8 x 30 W	4 x 30 W or 4 x 90 W
Managed	No		Yes			
IGMP	No		Snooping/Filtering			
VLAN	No		Port/MAC/Protocol/Subnet			
QoS	No		Yes			
Static Routes	No		IPv4/v6			
Network Redundancy	No		STP/RSTP/MSTP/LACP/ERPSv1v2			
Config	No		HTTP(S)/Telnet/SSH/CLI/SNMPv3			
Frame Size	10 Kbytes		9.6 Kbytes			
MAC Table	1 K		8 K			
Packet Buffer	1 Mbits		4 Mbits			
VLAN Groups	N/A		4095			
IGMP Groups	N/A		1024			
Power Input	48–56 VDC		12–48 VDC	48–55 VDC		
Power Consumption (No PoE)	4.8 W	10 W	15 W	10.8 W	15 W	12.5 W
Operating Temperature	-40 to 167°F (-40 to 75°C)		-40 to 185°F (-40 to 85°C)			
Form Factor	Flatmount		DIN			



Power over Ethernet (PoE)

Name	IEEE Extension	Type	Power Budget per Device
PoE	IEEE 802.3af	1	15.4 W
PoE+	IEEE 802.3at	2	30.8 W
PoE++/UPoE	IEEE 802.3bt	3	60 W
	IEEE 802.3bt	4	90–95 W

Patton's FP2008E/AB is a 12-port industrial gigabit PoE++ managed Ethernet switch embedded with 4*10/100/1000 802.3bt 90W/ports, 4*10/100/1000 802.3af/at 30W/ports and 4*100/1000 dual rate SFP slots for fiber connections. The FP2008E/AB is a fully-manageable Light Layer 3 Ethernet switch, pre-loaded with a user-friendly web management. It supports the ring network redundancy function using open standard ITU-T G.8032 Ethernet Ring Protection Switch (ERPS) protocol that has a <50ms network recovery time. The 4 SFPs allow for a dual-redundant fiber ring for applications where network connectivity

Industrial Ethernet Extenders

High Speed

						
	CL1101E	CL1212E	CL1314R	CL1401E	CL1402E/IP67	CL2304E
Operates in Pair or Standalone	Pair	Pair	Pair	Single	Single	Pair
Maximum Distance	3,300 ft (1 km)	1.8 mi. (3 km)	6.4 miles (10.4 km)	328 ft (100 m)		6.4 mi. (10.4 km)
Maximum Bandwidth (Speed)	100 Mbps	150 Mbps*	30 Mbps	1 Gbps		60 Mbps
Asymmetrical/Symmetrical**	Symmetrical	Asymmetrical	Symmetrical			
Distance at Maximum Bandwidth (Speed)	1,849 feet (536 m)	750 ft (228.6 m)	3,800 ft (1.16 km)	328 ft (100 m)		3,800 ft (1.16 km)
Number of Ethernet Ports	1	2	4	2	3	4
Number of Twisted Wire Pairs (Between Extenders)	1 to 4 pair	1 pair	1 to 2 pair	4 pair (Cat 6)		1 to 4 pair
Coax Available	No					
Daisy Chain	No		Yes (CL1314MDE)	Yes		No
Multi-Drop	No		Yes (CL1314MDE)	No		
Remote Unit PoE (PSE)—Power Injector	Yes (30 W)	No		Yes (60 W)	Yes (30 to 60 W) x 2	No
Local Unit PoE (PD)—Powered Device	No			Yes (90 W)		No
Operating Temperature	-40 to 185°F (-40 to 85°C)					
Outdoor Operation	Yes (CL1101E/IP67)	Yes (with TNE-03)			Yes native	Yes with TNE-03

* In asymmetrical mode
** **Asymmetrical** = Upstream and Downstream are different/**Symmetrical** = Upstream and Downstream are identical



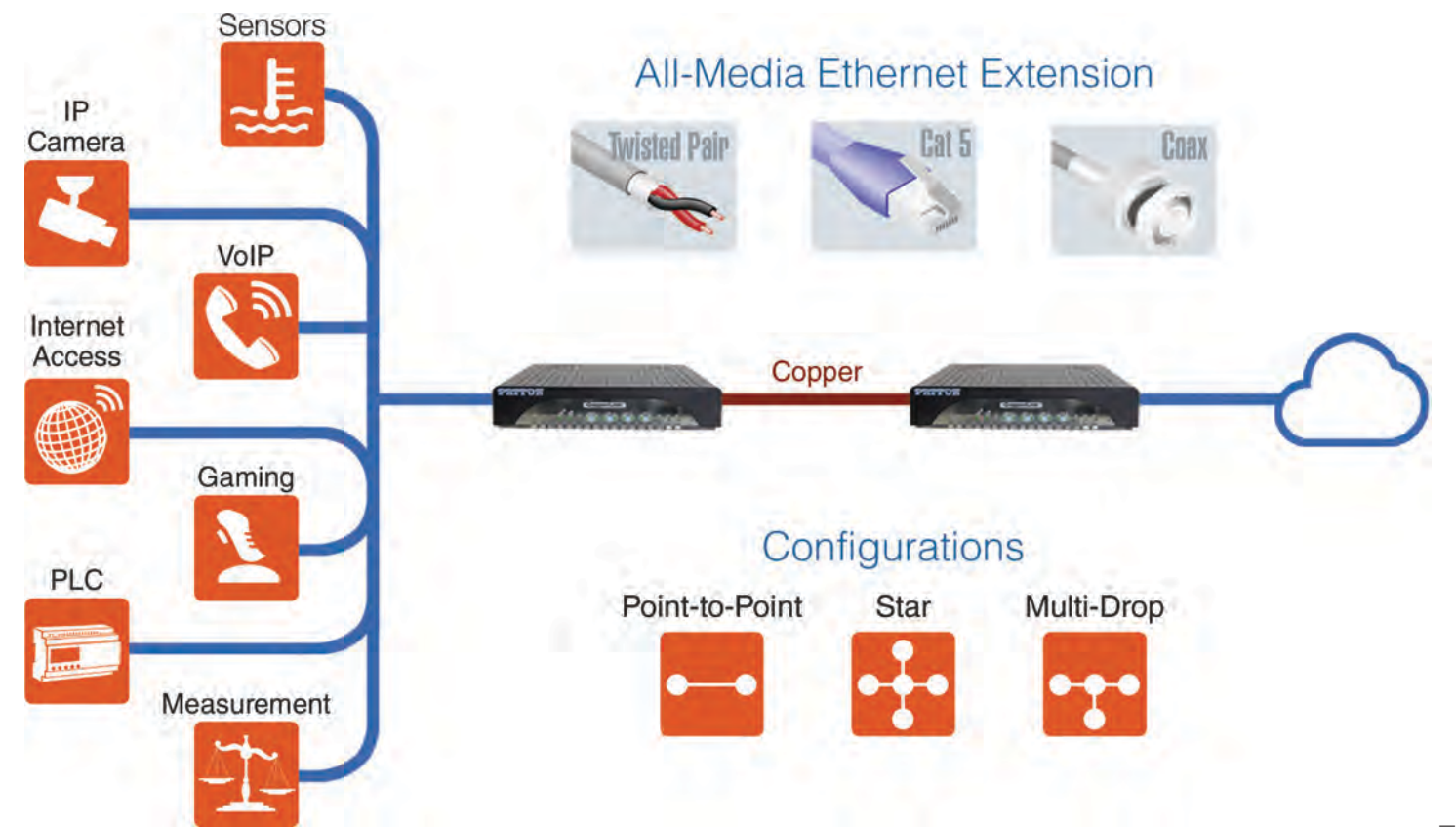
- Patton's CopperLink can:
- ▶ Transparently pass Ethernet over **any** twisted pair or coax (typically used with existing telephony circuits)
 - ▶ Extend Ethernet up to 6.2 mi. (10 km) over twisted pair
 - ▶ Pass power and Ethernet over **any** twisted pair ultimately providing PoE to end points

Long Range

		
	CL1314R	CL2304E
Operates in Pair or Standalone	Pair	
Maximum Distance	6.4 miles (10.4 km)	
Maximum Bandwidth (Speed)	30 Mbps	60 Mbps
Asymmetrical/Symmetrical**	Symmetrical	
Distance at Maximum Bandwidth (Speed)	3,800 ft (1.16 km)	
Number of Ethernet Ports	4	
Number of Twisted Wire Pairs (Between Extenders)	1 to 2 pair	1 to 4 pair
Coax Available	No	No
Daisy Chain	Yes (CL1314MDE)	No
Multi-Drop	Yes (CL1314MDE)	No
Remote Unit PoE (PSE)—Power Injector	No	
Local Unit PoE (PD)—Powered Device	No	
Operating Temperature	-40 to 185°F (-40 to +85°C)	
Outdoor Operation	Yes (with TNE-03)	

PoE

			
	CL1101E	CL1401E	CL1402E/IP67
Operates in Pair or Standalone	Pair	Single	
Maximum Distance	3,300 ft (1 km)	328 ft (100 m)	
Maximum Bandwidth (Speed)	100 Mbps	1 Gbps	
Asymmetrical/Symmetrical**	Symmetrical		
Distance at Maximum Bandwidth (Speed)	1,849 feet (536 m)	328 ft (100 m)	
Number of Ethernet Ports	1	2	3
Number of Twisted Wire Pairs (Between Extenders)	1 to 4 pair	4 pair (Cat 6)	
Coax Available	No		
Daisy Chain	No	Yes	
Multi-Drop	No		Yes
Remote Unit PoE (PSE)—Power Injector	Yes (30 W)	Yes (60 W)	Yes (30 to 60 W) x 2
Local Unit PoE (PD)—Powered Device	No	Yes (90 W)	
Operating Temperature	-40 to 185°F (-40 to +85°C)		
Outdoor Operation	Yes (with TNE-03)		Yes native



Industrial Media Converters

Media Converters

							
	FP100E/SFP/DC	FP101E/SFP/DC	FP101EM/SFP/DC	FP102E/SFP/DC	TD-6010	T-KIT-ETH-M	T-KIT-ETH-S
Operates in pair or standalone	Single				Single or Pair	Pair	
Speed (Mbps)	10/100	1000		10000	10/100/1000		
Uplink ports	1 x SFP					1 x SFP (1310, LC)	
Multimode/Singlemode	Either, SFP					Multimode	Singlemode
Downlink ports	1x Copper (RJ45)				1xSFP	1x SFP Copper (RJ45)	
PoE (PSE)	No						
Voltage Input	12–56 VDC				9–12 VDC, Includes AC Adapter		
Operating Temperature	-40 to +75°C				32 to +122°F (0 to +50°C)		

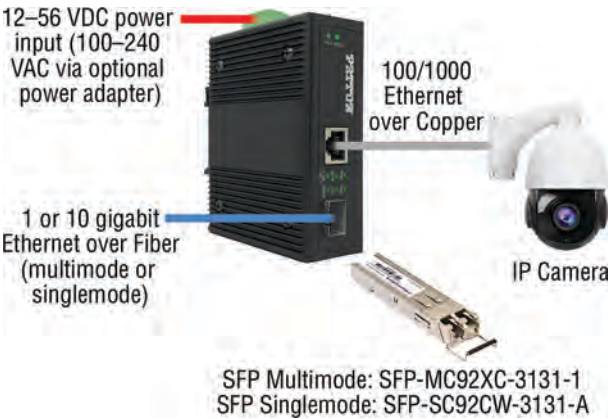
PoE Media Converters

				
	FP101EM/SFP/AT/48	FP101E/SFP/AT/48	FP101E/SFP/BT90/52	FP102E/SFP/BT90/52
Operates in pair or standalone	Single			
Speed (Mbps)	1000			10000
Uplink ports	1xSFP			
Multimode/Singlemode	Either, SFP			
Downlink ports	1x Copper (RJ45)			
PoE (PSE)	1 x 30 W		1 x 60–90 W bt	
Voltage Input	48–56 VDC		52–56 VDC	
Operating Temperature	-40 to +75°C			

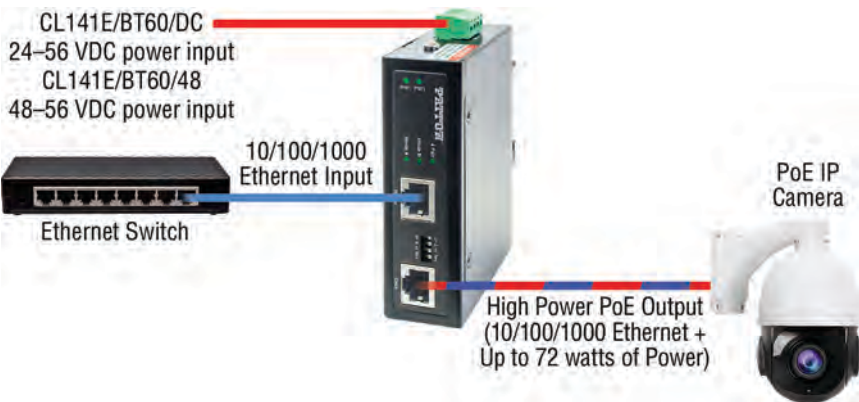
PoE Injectors & Splitters

									
	CL141E/AT/DC	CL141E/BT60/48	CL141E/BT60/24	CL141E/POH95/48	CL141E/POH95/24	CL141E/BT90/52	CL141E/BT90/24	CL142E/BT90/52	CL241E/BT90/DC
Splitter/Injector	Injector				Injector				Splitter
PoE	1 x 30 W	1 x 60 W	1 x 95 W PoH		1 x 95 W PoH	1 x 60–90 W bt			bt PoE input
Speed (Mbps)	1000				1000			10000	1000
Uplink ports	1 x TX				1 x TX				bt PoE input
Downlink ports	1 x 30 W PSE	1 x 60 W PSE		1 x 95 W PoH PSE	1 x 95 W PoH PSE	1 x 60–90 W bt PSE			1 x Gig TX
Voltage Input	12–56 VDC	48–56 VDC	24–56 VDC	48–56 VDC	24–56 VDC	52–56 VDC	24–56 VDC	52–56 VDC	12, 16, 24, 48 VDC OUT
Operating Temperature	-40 to 167°F (-40 to +75°C)				-40 to 167°F (-40 to +75°C)				

Typical PoE Media Converter Application



Typical PoE Splitter Application



Universal SFP to SFP Media Converters

		
	FOI-6010	TD-6010
Speed (Mbps)	10/100/1000	
Uplink Ports	1 x SFP	
Multimode/Singlemode	Either, SFP	
Downlink ports	1 x SFP	
RF Shielded Enclosure	Yes	No
Voltage Input	100–240 VAC or 12–48 VDC	9–12 VDC, includes AC Adapter
Operating Temperature	32 to +122°F (0 to +50°C)	

Ethernet Fiber Isolators/Converters

			
	FOI-1GBT	FOI-4110	TKIT-ETH
Speed (Mbps)	1000	10/100	10/100/1000
Uplink ports	ST Fiber		1 x SFP
Multimode/Singlemode	Both available		Either, SFP
Downlink ports	1 x RJ45		1 x SFP
RF Shielded Enclosure	Yes		No
Voltage Input	100–240 VAC or 12–48 VDC		9–12 VDC, includes AC Adapter
Operating Temperature	32 to +122°F (0 to +50°C)		

Serial Datacom

Device Servers

			
	CT2132E	CT2232E	CT2285E CT2286E
Serial Type	RS232	RS232, TTL	RS232,422,485
Serial Rate	115.2 kbps		912.6kbps
Number of Serial Ports	1	2	
Serial Interface	DB9 Male	DB15 Male	DB9 and/or Terminal Block
Ethernet Type	10/100		802.11b/g/n and 10/100
Ethernet Interface	RJ45		RJ45, Wireless
SSL/TLS Security	No		Yes
Storage	No		MicroSD/MMC Flash Card
Voltage Input	External 100–240 VAC or Internal 5–24 VDC		External 100–240 VAC Adapter or Internal 7–24 VDC
Operating Temperature	-40 to 185°F (-40 to 85°C)		

Interface Converters

		
	2089	222N9
Async/Sync	Async	
Data Rate	Up to 115.2 kbps	Up to 19.2 kbps
RS-232 Interface	DB9 Male or Female	
RS-485 Interface	RJ11, RJ45 or Terminal Block	N/A
RS-422 Interface	N/A	RJ11, RJ45 or Terminal Block
Transmit Line	1 or 2 x 2-wire Twisted Pair	2 x 2-wire Twisted Pair
Transmit Mode	4-wire Full or Half-Duplex, 2-wire Half-Duplex	4-wire Full-Duplex
Interface Powered (RS232)	Yes	
Operating Temperature	32 to +122°F (0 to +50°C)	

Contact Closures over Fiber

					
	FOI-2990			FOM-9010	
	FOI-2991/2992	FOI-2993/2994	FOI-2995/2996	FOM-9010	FOM-9011/9012
Transmitter/Receiver	Transmitter	Receiver		Transmitter	Receiver
Number of Signals Supported	Accepts 12	Activates 12 (2993) or 8 (2994)	Activates 12 (2995) or 8 (2996)	Accepts 12	Activates 12 (9012) or 8 (9011)
Input	0–5 VDC or 12–24 VAC/VDC	Fiber		5–65 VDC or 4–45 VAC	Fiber
Input Connector	DB25 Female	ST		DB25 Male	SFP, LC, ST
Output	Fiber	SPST Form A or SPDT Form C		Fiber	Form C Contact or Form A and B
Output Connector	ST	DB25 Male		SFP, LC, ST	DB25 Male
Relay Enclosure	N/A	Latching	Non-Latching	N/A	N/A
Fiber Type	Multimode			Multimode/Singlemode	
RF Shielded Enclosure	Yes			No	
Operating Temperature	32 to +122°F (0 to +50°C)				

Serial to Fiber Isolators/Modems

			
	FOI-4141/4411	TD-1280/1281	FOM-1090/1091
Async/Sync	Async/Sync		
Maximum Data Rate	1 Mbps		1 x 60 W
Maximum Distance	20 km	20 km or more	20 km
Interface Standards	RS232		RS232, 530, 449, X.21, V.35
Serial Interface	1 x DB25 Male/Female	1 x DB25 Female	1 x DB25 Male/Female
Fiber Interface	ST	SFP	ST, LC
Transmission Mode	Singlemode/Multimode		
RF Shielded Enclosure	Yes	No	
Power Input	External 100–240 VAC or External 48-VDC Adapter	External 100–240 VAC Internal 12 VDC	Chassis 100–240 VAC or 48 VDC
Operating Temperature	32 to +122°F (0 to +50°C)		

LAN Ethernet Port Protectors

		
	570	580
Ethernet In	10/100/1000	
Ethernet Out	10/100/1000	
Connectors	2 x RJ45	
Response Time	13 V after 1 µs	
Impedance	100 Ohms	
NEXT Loss	-46 dB @ 100 MHz	-43 dB @ 100 MHz
Clamping Voltage	13 V with 1 KV input	15 V with 2 KV input
Surge Rating	IEC 801.5 std	
Point of Use	Device	Network Closet
Operating Temperature	32 to +122°F (0 to +50°C)	

Copper Line Drivers

				
	1080A	1040U	1004A/1008	1000/1009
Async/Sync	Async/Sync		Async	
Data Rate	57.6 kbps	38.4 kbps	115.2 kbps	19.2 kbps
Maximum Distance	17 miles (27.4 km)	12 miles (19.3 km)	9 miles (14.5 km)	17 miles (27.4 km)
RS232 Interface	DB25 Female	DB25 Female or Male	DB25 Male or Female / DB9 Male or Female	DB25 Male or Female / DB9 Male or Female
Transmit Line Interface	1 x RJ45 & Terminal Block	1 x RJ45, RJ11, & Terminal Bock	1 x RJ45 or RJ11 or Terminal Bock	
Transmission Line	1 or 2 x 2-wire Twisted Pair			2 x 2-wire Twisted Pair
Transmit Mode	4-wire Full or Half-Duplex, 2-wire Half-Duplex	4-wire Full-Duplex, 2-wire Half-Duplex		4-wire Full-Duplex
Point to Point/Multi-Point	PTP and MTP			PTP
Power Input	External 100–240 VAC adapter or Internal 12, 24 or 48 VDC	RS232 Interface Powered		
Operating Temperature	32 to +122°F (0 to +50°C)			

Industrial VoIP & Telecom

VoIP Gateways

					
	SN200R		SN200M	SN4140E	SN4741
Embedded Software				Trinity	
Patton Cloud Connect				Yes	
Telephony Interfaces				FXS	
Number of Telephony Ports	1, 2 or 4			2, 4 or 8	16, 24, 32, 48, 64, 72, 96 or 128
Call Capacity	up to 4			up to 8	up to 128
TDM to SIP				Yes	
USB (Cellular Failover)				No	
IP Router	No				Optional
Number of Ethernet Ports	1 x 10/100			2 x 10/100	2 x 10/100/1000
Form Factor	DIN	PCB Module		DIN, Desktop	Rackmount
Operating Temperature	32 to 104°F (0 to 40°C)			-40 to 158°F (-40 to 70°C)	32 to 104°F (0 to 40°C)

Analog (POTS) FXS/FXO over Fiber

				
	FOM-2970		FOM-3840	
	FOM-2971	FOM-4972	FOM-3841	FOM-3842
Signal Type	POTS (FXO)	POTS (FXS), fax, STU/STU-III, STE, V.90	POTS (FXO)	POTS (FXS), fax, STU/STU-III, STE, V.90
Number of Channels	1		4	
Number of Wire Pairs to Device			2-wire (1 pair)	
Line Type			Fiber	
Maximum Distance			20 km	
Ring Down Support			Yes	
POTS Interface	RJ11		4 x RJ11	
Fiber Interface	ST		ST, LC, SFP	
Transmission Mode			Singlemode/Multimode	
RF Shielded Enclosure	Yes		No	
Power Input	External 100–240 VAC or External 48-VDC Adapter		Chassis 100–240 VAC or 48-VDC	
Operating Temperature			32 to +122°F (0 to +50°C)	

T1/E1 PRI over Fiber

				
	TD-5400		FOI-5400	
	TD-5401	TD-5402	FOI-5401	FOI-5402
Signal Type	T1	E1	T1	E1
Number of Channels			1	
Per-Channel Max Data Rate	1.544 Mbps	2.048 Mbps	1.544 Mbps	2.048 Mbps
Number of Wire Pairs to Device			4-wire (2 pair)	
E1/T1 Interface	RJ45		4 x RJ45	
Line Type			Fiber	
Maximum Distance			12.4 miles (20 km)	
Fiber Interface	LC, SFP		ST, LC	
Transmission Mode			Singlemode/Multimode	
RF Shielded Enclosure	No		Yes	
Power Input	External 100–240 VAC Adapter or Internal 12 VDC		External 100–240 VAC or External 48-VDC Adapter	Chassis 100–240 VAC or 48 VDC
Operating Temperature			32 to +122°F (0 to +50°C)	

Telecom Port Protectors ISDN BRI over Fiber

						
	552			TD-5601	FOI-5601	FOM-5600
Signal Type	552-DX	552-LX	552-T1/E1	ISDN BRI S/T (BRA)		
Connectors	Dial Up	Leased Line	T1/E1			
Clamping Voltage	310 V in 500 nsec	62 V in 500 nsec	62 V in 500 nsec			
Surge Capacity	1500 W for 1 msec					
Operating Temperature	32 to +122°F (0 to +50°C)					
Number of Channels				1		4
Per-Channel Max Data Rate				192 kbps		
Number Wire Pairs to Device				4-wire (2 pair)		
ISDN Interface				RJ45		4 x RJ45
Line Type				Fiber		
Maximum Distance				1.5 miles (2.4 km)		
Fiber Interface				LC, SFP	ST, LC, SFP	
Transmission Mode				Singlemode/Multimode		
RF Shielded Enclosure				No	Yes	No
Power Input				External 100–240 VAC Adapter or Internal 12 VDC	External 100–240 VAC or External 48-VDC Adapter	Chassis 100–240 VAC or 48 VDC
Operating Temperature				32 to +122°F (0 to +50°C)		

Notes

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