TRENDnet®

RUGGED INDUSTRIAL SOLUTIONS

Rugged Industrial Networking Solutions

PoE Cameras

PoE Ethernet

Fiber distance based on SFP

SFP

Ethernet

SFP

TI-PG541i

TI-PG80

TI-F11SFP

Light pole
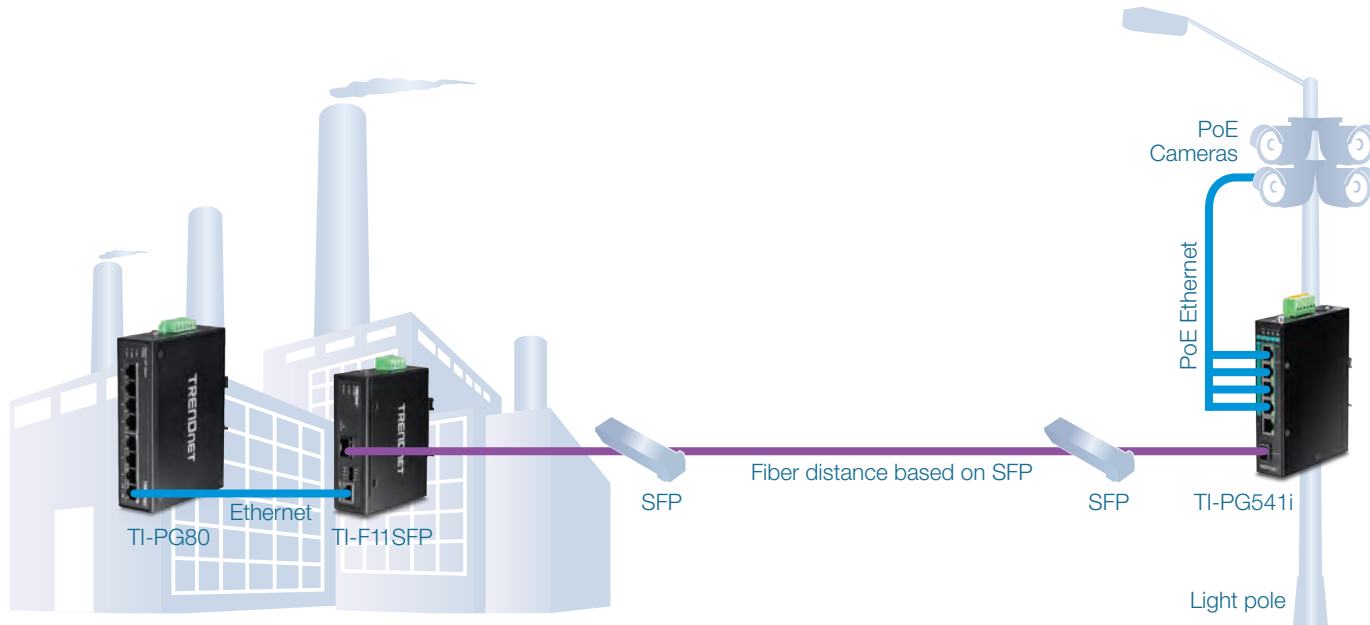
Sample Factory Surveillance Application

TRENDnet industrial switch and fiber solutions provide dependable and hardened networking hardware for your extreme environments, including areas with severe temperatures, or heavy amounts of dust and dirt particles.

90 100

Extreme Temperatures
IP30 rated housing for harsh temperature fluctuations

Fiber Distance
Fiber optics support for long distance networking and latency

Camera Applications
Ideal for use with outdoor surveillance solutions

Sample NEMA box application
Industrial switches are often used with NEMA electrical enclosures.

NEMA boxes not available through TRENDnet

Français:

Solides solutions industrielles de mise en réseau. Les solutions fibres et switches industriels de TRENDnet constituent un matériel fiable et renforcé de mise en réseau pour vos environnements extrêmes, y compris les zones avec des températures très élevées ou très basses ou avec de nombreuses particules de poussière. Les solutions de switches industriels disposent d'un boîtier de classe IP30/IP40 pour les importantes variations de température, une compatibilité avec la fibre optique pour une mise en réseau sur de longues distances et aussi pour éviter les temps de latence. Ces Switches industriels sont idéales pour une utilisation avec des solutions de surveillance à l'extérieur et sont souvent utilisés avec les boîtiers électriques NEMA comme indiqué sur l'image (boîtiers non fournis par TRENDnet).

Deutsch:

Robuste industrielle Netzwerklösungen. Die industriellen Switch- und Glasfaserlösungen von TRENDnet bieten zuverlässige und gehärtete Netzwerkhardware für extreme Umgebungen, darunter auch Umgebungen mit extremen Temperaturen oder einem hohen Staub- und Dreckpartikelaufkommen. Die industriellen Switch-Lösungen von TRENDnet bieten Gehäuse mit Schutzklasse IP30/IP40 für starke Temperaturschwankungen, Glasfaseroptik für Networking über große Entfernungen hinweg und Latenzzeiten, und sind ideal geeignet für die Verwendung mit Outdoor-Überwachungslösungen. Industrielle Switche werden oft zusammen mit NEMA-Schaltschränken wie abgebildet verwendet (Schaltschränke nicht bei TRENDnet erhältlich).

Português:

Soluções de rede industriais robustas. Switches industriais da TRENDnet e soluções de fibra garantem uma rede confiável e preparada para ambientes com condições adversas, inclusive em áreas com temperaturas extremas ou grandes quantidades de partículas de poeira e sujeira. As soluções de switch industrial da TRENDnet oferecem proteção com classificação IP30/IP40 para as variações climáticas e ambientais extremas, suporte de fibra ótica para redes de longa distância e latência e são ideais para uso com soluções de vigilância ao ar livre. Switches industriais são muitas vezes utilizados com o gabinete elétrico NEMA como mostrado (gabinetes NEMA não estão disponíveis através da TRENDnet).

Español:

Soluciones de red industriales reforzadas. Las soluciones de switchs industriales y fibra de TRENDnet ofrecen hardware reforzado y de confianza para entornos de alta exigencia, como zonas con temperaturas extremas o elevadas cantidades de polvo y partículas de suciedad. Los switchs industriales de TRENDnet ofrecen carcasas con clasificación IP30/IP40 para temperaturas fluctuantes y extremas, compatibilidad con fibra óptica para latencia y trabajo en red a larga distancia, y son ideales para soluciones de vigilancia en exteriores. Los switchs industriales suelen utilizarse con una caja eléctrica NEMA según se muestra en la imagen (TRENDnet no comercializa este producto).

Industrial Solutions

	UPoE	Industrial Gigabit PoE+				Variable Voltage	Industrial Gigabit Switches			
	TI-UPG62	TI-PG102	TI-PG80	TI-PG62	TI-PG541	TI-PG62B	TI-G102	TI-G80	TI-G62	TI-G50
Ports	4 x gigabit Ultra PoE+,2 x SFP	8 x gigabit PoE+, 2 x gigabit and 2 x SFP shared	8 x gigabit PoE+	4 x gigabit PoE+, 1 x gigabit and 1 x SFP shared, 1 x SFP	4 x gigabit PoE+,1 x gigabit, 1 x SFP	4 x gigabit PoE+, 2 x SFP	8 x gigabit, 2 x gigabit and 2 x SFP shared	8 x gigabit	5 x gigabit, 1 x shared SFP, 1 x SFP	5 x gigabit
PoE budget	240 watts	240 watts	200 watts	120 watts	120 watts	60-120 watts	-	-	-	-
Max. power per port	60 watts	30 watts	30 watts	30 watts	30 watts	30 watts	-	-	-	-
Switching fabric	12Gbps	20Gbps	16Gbps	12Gbps	12Gbps	12Gbps	20Gbps	16Gbps	12Gbps	10Gbps
RAM buffer	1MB	2MB	1MB	1MB	512KB	1MB	2MB	1MB	1MB	1MB
MAC address table	1K	16K	8K	1K	8K	1K	16K	8K	2K	8K
Temperature	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)
Housing	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Rackmount	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail
Power supply	Power adapter required (TI-S24048)	Power adapter required (48VDC3000 or TI-S24048)	Power adapter required (TI-S24048)	Power adapter required (48VDC3000 or TI-S24048)		Power adapter required (48VDC3000 or TI-S24048)	Power adapter required (48VDC3000 or TI-24048)	Power adapter required (TI-M6024)		
Warranty	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*	Lifetime*

	Industrial Gigabit PoE Injectors	
	TI-IG60	TI-IG30
Description	Industrial Gigabit UPoE Injector	Industrial Gigabit PoE+ Injector
PoE budget	60 watts	30 watts
Temperature	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)
Housing	IP30	IP30
Rackmount	Wall / DIN-Rail	Wall / DIN-Rail
Power supply	Power supply required (TI-S12048)	
Warranty	3 year	3 year

	Industrial Gigabit PoE+ Fiber Converter	Industrial Gigabit Fiber Converters	Industrial 100Mbps Fiber Converters	
	TI-PF11SFP	TI-F11SFP	TI-F10S30	TI-F10SC
Fiber mode	Based on SFP	Based on SFP	Single	Multi
Fiber converter	SFP	SFP	Duplex SC	Duplex SC
Distance	Based on SFP	Based on SFP	30km (18.6 mi.)	2km (1.2 mi.)
Temperature	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)	-40 – 75°C (-40 – 167°F)
Housing	IP30	IP30	IP40	IP40
Wavelength	Based on SFP	Based on SFP	1310nm	1310nm
Standalone converter	✓	✓	✓	✓
LFP	✓	✓	✓	✓
Rackmount	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail	Wall / DIN-Rail
Power supply	Power supply required (TI-S12048)	Power supply required (TI-M6024)	Power supply required (TI-M6024)	
Warranty	3 year	3 year	3 year	3 year

*See warranty policy at TRENDnet.com

Industrial Solutions

	Industrial Layer 2 Managed PoE+	
	TI-PG541i	TI-PG1284i
Ports	4 x gigabit PoE+,1 x gigabit, 1 x SFP	8 x gigabit PoE+ (802.3at) ports, 4 x gigabit SFP slots, and 1 x console port
PoE budget	120 watts	240 watts
Max. power per port	30 watts	30 watts
Switching fabric	12Gbps	24Gbps
RAM buffer	128MB	128MB
Forwarding rate	8.93Mpps	17.86Mpps
MAC address table	8K	16K
VLAN	Asymmetric, port based, 802.1Q, private, voice, dynamic GVRP	
ACL	L2, L3, L4	L2, L3, L4
IPv6	-	IPv6 static IP address, DHCPv6 client
802.1ab LLDP	✓	✓
802.1X	-	✓
Spanning tree	-	STP, RSTP, MSTP
Multicast (IGMP)	v1, v2, v3	v1, v2, v3
SNMP	v1, v2c	v1, v2c, 3
Port based link aggregation	-	✓
Temperature	-40 to 75 °C (-40 to 167 °F)	-40 to 75 °C (-40 to 167 °F)
Housing	IP30	IP30
Rackmount	DIN-Rail	DIN-Rail
Power supply	Power supply required (48VDC3000 / TI-S24048 / TI-S12048)	Power supply required (TI-S24048)
Warranty	Lifetime*	Lifetime*

*See warranty policy at TRENDnet.com

SFP

TI-G62

Power Substation

SFP

SFP

Basic Outdoor Substation Application

TI-PG1284i

TI-G62

Solar Panels

Wind Power
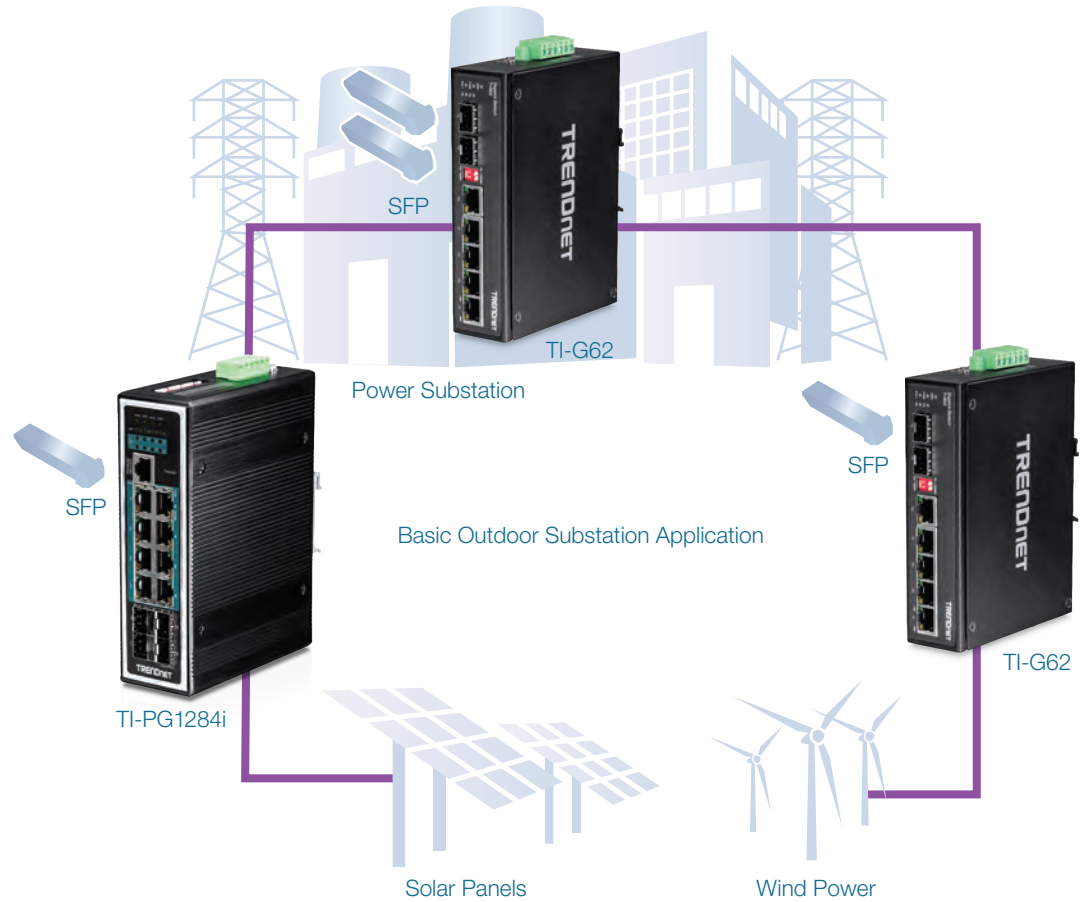
|	Industrial SFP Modules	
	TI-MGBSX	TI-MGBS10	TI-MGBS40
Features	TRENDnet offers a selection of ANSI Fiber Channel Compliant modules for industrial networking distances of up to 40km (24.9 mi.). Visit trendnet.com to review specific models.	
Warranty	3 year	3 year	3 year

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TI-EU120
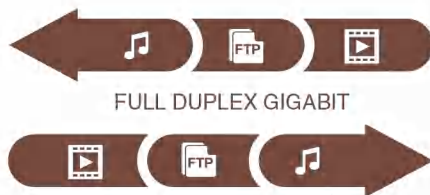## 2-Port Industrial Outdoor Gigabit UPoE Extender

TRENDnet's 2-Port Industrial Outdoor Gigabit UPoE extender, model TI-EU120, takes a single UPoE connection and extends it an additional 100m (328 ft.) for up to two PoE+ devices. Contact us to learn more!
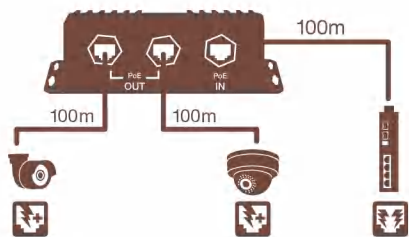
UPoE Power
Extends a UPoE connection up to 100m (328 ft.) to PoE (15.4W), PoE+ (30W), and UPoE (60W) devices.

Gigabit Ports
Features one gigabit UPoE input port and two gigabit PoE+ output ports that extends a single UPoE connection an additional 100m (328 ft.) to two PoE+ devices.

Outdoor Ready
Built for outdoor environments with an IP67 weather rating and an operating temperature range of -40° – 75°C (-40° – 167°F).

- Easy installation
- Daisy chain up to 4 units for a total PoE network extension of up to 500m (1640 ft.)
- Use a single UPoE connection to extend PoE for up to two devices
- No external power adapter required
- Built-in True Surge 6kV Protection

TI-EU120

TI-UPG62
TI-S24048
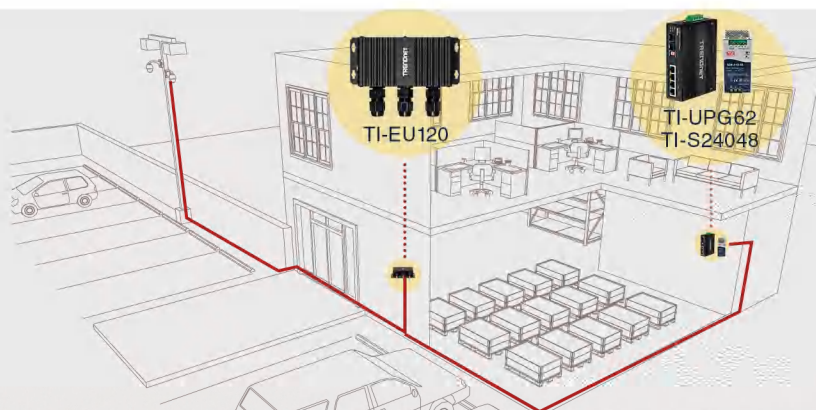
TRENDnet®

TI-UF11SFP
Industrial SFP to Gigabit UPoE Media Converter

TRENDnet's Industrial SFP to Gigabit UPoE Media Converter, model TI-UF11SFP, converts fiber to copper while providing power to PoE, PoE+ and UPoE compliant devices such as IP cameras, VoIP phones, and wireless access points. Contact us to learn more!

Industrial Applications
Networks devices for manufacturing, general industrial, logistics, surveillance, and corporate applications.

UPoE Output
Converts fiber to copper while providing power to PoE, PoE+ and UPoE compliant devices such as IP cameras, VoIP phones, and wireless access points.
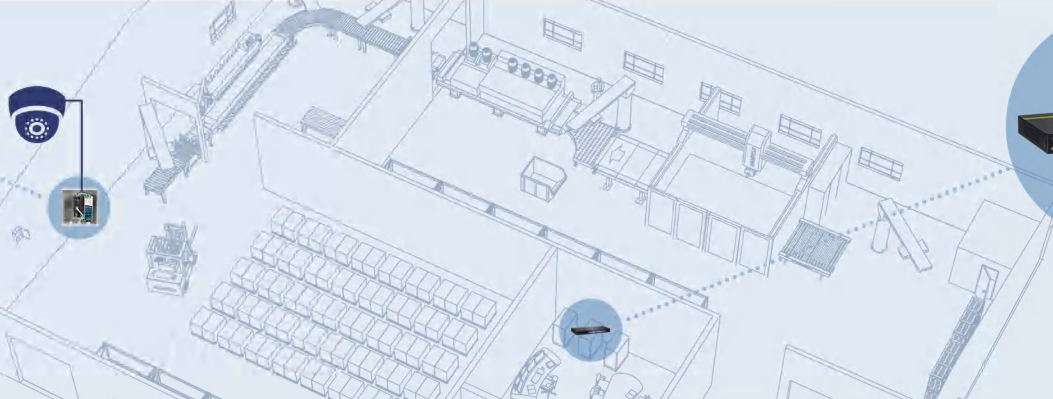
Industrial Environments
Hardened IP30 converter, with a -40 to 75°C (-40 to 167°F) operating temperature range.

- SFP port accommodates Multi or Single Mode fiber
- Up to 40 km fiber networking distances with the TI-MGBS40 SFP module
- Provides up to 60W for PoE, PoE+ and UPoE compliant devices
- Includes DIN-rail and wall mounts
- Wide operating temperature range -40 to 75 °C (-40 to 167 °F)
- Powers supply sold separately (model TI-S12048)

TI-UF11SFP

Web Smart Switch