

Unmanaged Hardened Gigabit Ethernet Media Converter

(1) 10/100/1000Base-T Port + (1) 1000Base-SX/LX Port or (1) 100/1000Base-X Port



The SISTG10xx-211-LRT-B Series is a new generation of unmanaged hardened Gigabit Ethernet media converter. The converter can provide multimode or single mode fiber connections with fixed SC connectors for extending the Ethernet service distance over fiber. The converter also has a SFP version that provides the ultimate flexibility to choose the appropriate SFP module to match your communication and distance needs.

It has redundant input power connections to ensure safe reliable operation in temperatures between -40°C and +75°C. Transition Networks' hardened switches are certified with UL Class 1 Division 2 to operate reliably in hazardous locations such as Oil & Gas, manufacturing, and the chemical industry.

Features

- Auto-Negotiation
- Auto-MDI/MDIX
- Link Pass Through
- Extended operating temperature (-40°C to 75°C)
- Dual, Redundant, 12-48 VDC Power Inputs
- Reverse Polarity Power Input Protection
- Overload Current Protection
- DIN Rail Mounting Brackets Included
- Class 1, Div 2 Certified
- Jumbo Frame: 9K bytes

Specifications

Standards	IEEE 802.3 IEEE 802.3ab IEEE 802.3u IEEE 802.3x IEEE 802.3z
Data Rate	Copper: 10/100/1000 Mbps Fiber: 1000 Mbps SFP: 100/1000 Mbps
Dip Switches	1: SFP - Enable Auto Negotiation for the SFP / Force Gigabit speed for SFP port 2: Copper - Enable Auto Negotiation for the copper / Force Gigabit speed for copper 3: LPT - Enable/Disable Link Pass Through
Status LEDs	PWR (Power): ON = powered correctly LNK / ACT (ports 1-2): ON = Link; FLASHING = data transmitting
Dimensions	Width: 1.2" [30 mm] Depth: 3.86" [98 mm] Height: 4.25" [108 mm]
Power Consumption	3.4 Watts (max)
Power Input	12 to 48 VDC, 0.2A-0.5A, redundant inputs with reverse polarity protection
Ingress Protection	IP30
Environment	Operating: -40°C to +75°C Storage: -40°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	0.97 lbs. [0.44 kg]
MTBF	SISTG1013-211-LRT-B & SISTG1014-211-LRT-B 1,639,500 Hrs. Temp: 25.00° C. 251,499 Hrs. Temp: 75.00° C. SISTG1040-211-LRT-B 1,628,265 Hrs. Temp: 25.00° C. 248,741 Hrs. Temp: 75.00° C.
Certifications	UL Class 1, Div 2 for hazardous environments CISPR/EN55022 Class A, FCC Class A, CE Mark, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Warranty	5 Years

Ordering Information

SISTG1013-211-LRT-B
10/100/1000Base-T (RJ-45) [100 m/328 ft.]
to 1000Base-SX 850nm multimode (SC)
[62.5/125 μm: 220 m/722 ft.]
[50/125μm: 550 m/1804 ft.]
Link Budget: 8.5 dB

SISTG1014-211-LRT-B
10/100/1000Base-T (RJ-45) [100 m/328 ft.]
to 1000Base-LX 1310nm single mode (SC)
[9/125μm: 10 km/6.2 mi.]
Link Budget: 10.5 dB

SISTG1040-211-LRT-B
10/100/1000Base-T (RJ-45) [100 m/328 ft.]
to 100/1000Base-X SFP slot (empty)

Optional Accessories (sold separately)

SFP Modules

External AC/DC Power Supply
(sold separately)

SPS-UA12DHT
Input: 90-264VAC
Output: 12 VDC, 1.3A, 18 Watts

25135
Input: 85-264VAC, 120-370VDC
Output: 24VDC, 10 Watts, -20°C to +70°C