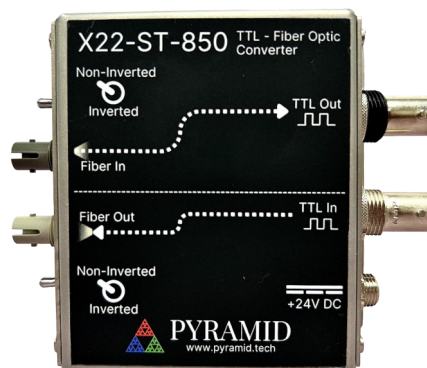


X22-ST-850— Bi-directional Optical to TTL Converter 850 nm

Features

- Converts fiber-optic signals to TTL, and TTL to fiber-optic
- Selectable polarity
- Compact package
- Low latency and jitter
- Square wave transmission up to 50 MHz
- DC operation
- Compatible with 50/125 μm , 62.5/125 μm , and 200 μm multimode fiber optic cables



Applications

- EMI-immune trigger and logic level signal delivery in distributed systems
- Long-range digital signal transmission
- Frequency transmission
- High voltage isolation
- General-purpose optical-TTL signal conversion

Specifications

Fiber-optic input	Broadcom AFBR-2418TZ receiver (ST bayonet), 850 nm light (near infra-red)
TTL output	47 ohm output series impedance driving TTL levels into $\geq 5 \text{ kohm}$. Polarity switch-selectable for the output to be the same or inverted relative to the fiber-optic input.
TTL input	TTL levels, input impedance 1 Mohm .
Fiber optic output	Broadcom HFBR-1415TZ 50 MBd transmitter (ST bayonet) , 850 nm light (near infra-red) Polarity switch-selectable for output to be the same or inverted relative to the TTL input.
Propagation delay	$\leq 15 \text{ nsec}$ optical to TTL $\leq 15 \text{ nsec}$ TTL to optical
Propagation jitter	$< 1 \text{ nsec}$
Frequency range	DC to 50 MHz (50% duty cycle square wave)
Power input	+24 +/- VDC, 100 mA max. Fused 1.1 A.



Connectors

Fiber optics	ST bayonet. Recommended fiber 62.5/125 μ m step index multimode
TTL	BNC jacks 50 ohm, two. Signal on core.
24 VDC input	2.1 mm threaded jack. Mate with Switchcraft S761K or equivalent. Pin: +24 VDC; Shell: 0V
Ground	Case grounded via mounting flange

Controls and indicators

Polarity switches	Independent toggle switches for optical to TTL, and TTL to optical.
Indicators	Power on green LED

Case

Type	Stainless steel sheet with mounting flange, IP43.
Weight	0.20 kg (0.44 lb)

Environment

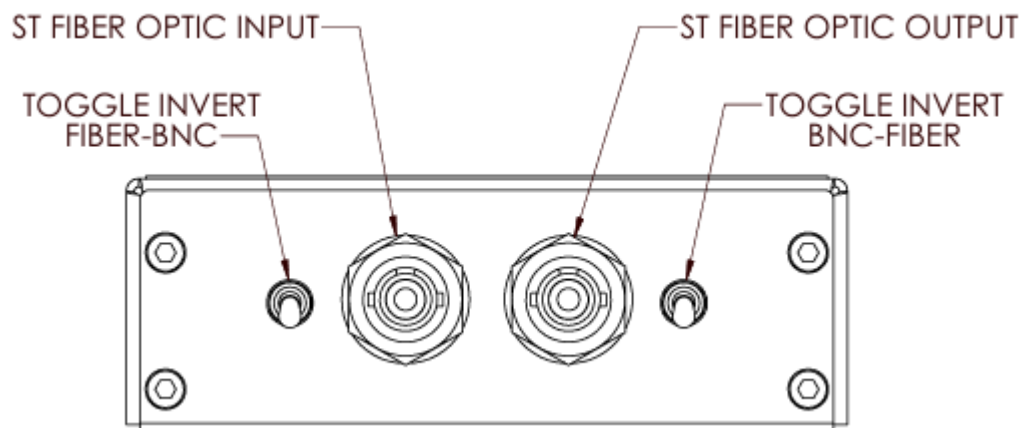
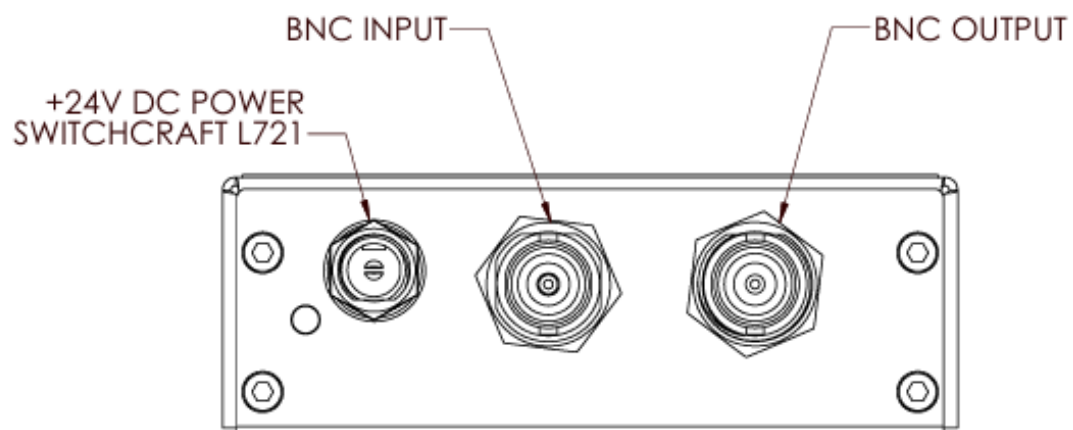
Operating environment	10 to 35C, < 80% humidity, non-condensing, vibration < 0.2 g all
Storage environment	0 to 50C, < 80% humidity, non-condensing, vibration < 2g all axes, 1 to 100Hz

Ordering information

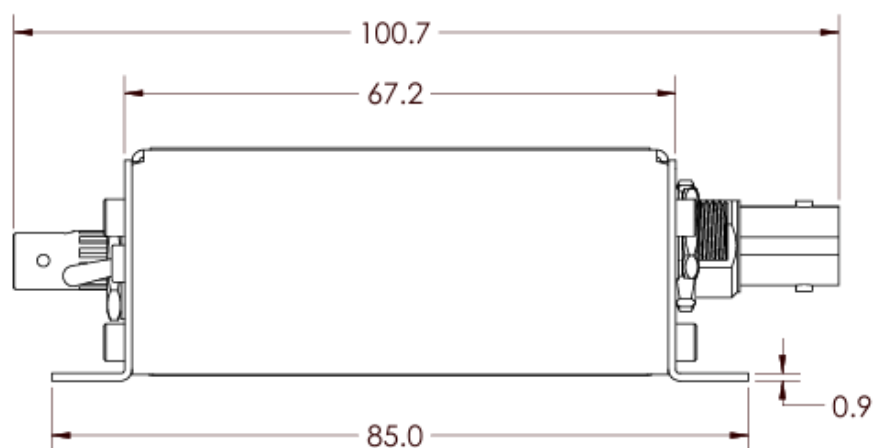
X22-ST-850	Bi-directional Optical to TTL converter, ST bayonet fiber optic connectors
MTG-DIN35-7662	DIN rail mounting adaptor
PSU24-25-1	Universal 24 VDC power supply, medical rated, 25 W, C8 line inlet, Switchcraft S761 threaded jack outlet.



Connectors



Technical drawing of the front view of the 1000 Series 1U Rack Mountable Power Supply. The drawing shows a rectangular unit with dimensions: 76.0 mm width, 80.5 mm total height, and 77.5 mm height for the main body. On the left side, there are two large circular fans and two smaller circular fans. On the right side, there are two large circular fans and two smaller circular fans. The text "4X 3.66 MOUNTING SLOT" is present on the right side.



Dims mm



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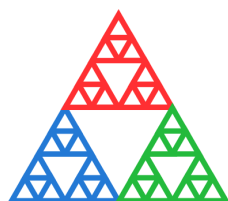
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The information herein is believed accurate at time of publication, but no specific warranty is given regarding its use. All specifications are subject to change.

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