



S100U Media Converters

Highlights

- The S100U series offers a variety of port configurations, including 10/100/1000Base-T RJ45 and 1000M optical fiber ports. This allows for seamless connection of different network devices, whether it's short-range copper-based setups or long-distance fiber-optic links.
- Each model in the S100U range is equipped with advanced technology for smooth optical-electrical or copper-fiber media conversion. It enables efficient signal transformation, ensuring stable and reliable data transmission across different network segments, regardless of the media type.
- All S100U media converters support multiple IEEE network protocols. This extensive protocol support ensures they can work harmoniously with a wide array of networking equipment from various manufacturers, facilitating easy integration into existing networks without compatibility issues.
- The S100U series provides a cost-efficient networking solution without compromising on performance. With their compact and lightweight design, they are easy to install and require minimal space. They are also unmanaged, meaning basic operation doesn't demand complex configuration, making them accessible to a wide range of users.

Product Overview

The S100U series by LSOLINK encompasses high-performance, unmanaged media converters tailored to meet diverse networking requirements. These devices are engineered to facilitate seamless optical-electrical or copper-fiber media conversion, which is essential in modern data-intensive networks. With port configurations such as 1T1S, 2T1S, and 4T2S, the series offers flexibility in network setups, enabling multi-user access and port backup. Supporting multiple IEEE standards, they ensure broad compatibility with different networking equipment. Operating in the Store and Forward mode, they handle network traffic efficiently. Built to endure a wide range of environmental conditions, from -15°C to 65°C and 5%-90% humidity, and featuring lightning protection, the series is reliable in various scenarios. Their compact design simplifies installation, and they offer a cost-effective networking solution for both enterprises and small-scale users, with a 2-year warranty for added peace of mind.

Versatile Port Configurations

The S100U series stands out with its diverse port configurations. Models like the S100U-1T1S have one 10/100/1000Base-T RJ45 port and one 1000M SFP fiber port, ideal for basic point-to-point conversions. The S100U-4T2S, on the other hand, features four 10/100/1000Mbps adaptive twisted-pair ports and two SFP optical ports. This allows for multi-user access and electric port backup, while the SFP ports offer flexibility in fiber-optic connections. Whether it's a small-office network or a large-scale enterprise setup, the S100U series can be easily integrated to meet specific networking needs.

Wide-range Protocol Compatibility

All devices in the S100U series support multiple IEEE standards, including IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE 802.3ab, IEEE802.3x, and IEEE 802.3z. This extensive protocol support ensures that the media converters can work seamlessly with a vast array of networking equipment. In a multi-vendor network environment, the S100U series can be added without the need for major reconfigurations. It enables smooth communication between different devices, regardless of their age or manufacturer, making it an ideal choice for network upgrades and new installations.

Robust Environmental Adaptability

The S100U series is designed to operate in harsh environmental conditions. It can function in temperatures ranging from -15°C to 65°C, making it suitable for both indoor and outdoor applications. Whether it's in a frigid outdoor new-infrastructure project or a sweltering industrial setting, the device remains reliable. Additionally, it can withstand humidity levels between 5%-90% non-coagulating. With a lightning protection level (varies by model) and meeting IP30 standards (basic protection against dust and water splashes), the S100U series ensures consistent network connectivity in diverse environments.

Cost-effective and User-friendly Design

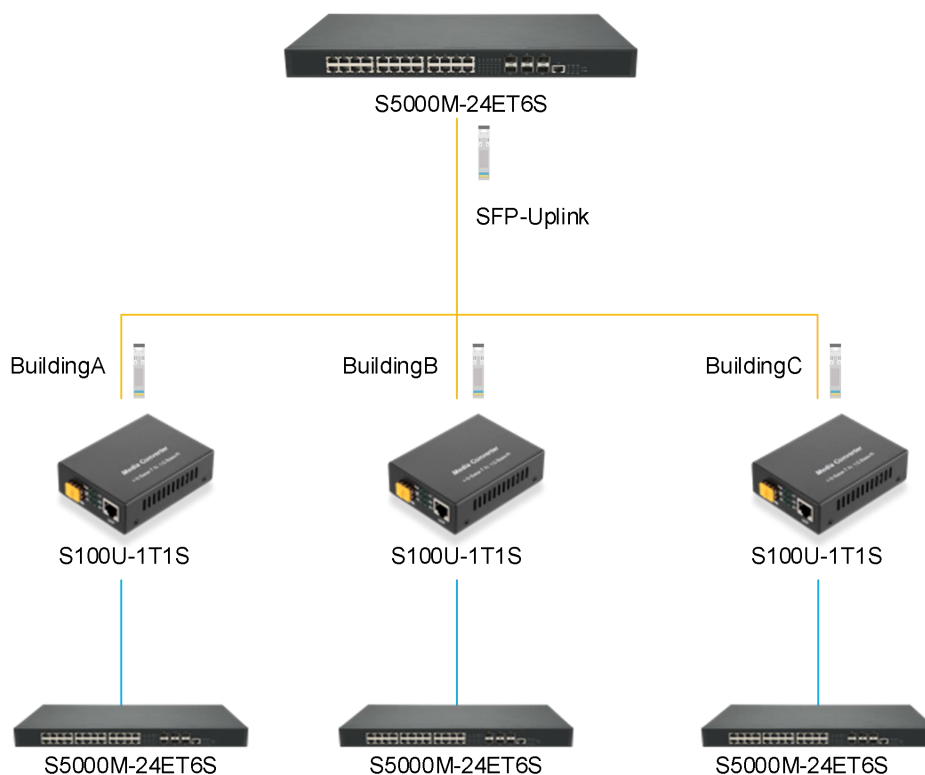
The S100U series offers a cost-effective networking solution without sacrificing performance. Priced reasonably, these devices provide high-end features such as efficient data handling and wide-range compatibility. Their compact size, with dimensions like 90mm×60mm×20mm (for some models), saves space in networking equipment. The installation process is straightforward, with clear instructions and intuitive interfaces. They are unmanaged devices, meaning that basic functionality requires no complex configuration. This makes the S100U series accessible to both experienced network engineers and novice users, providing reliable networking for all.

Hardware Specifications

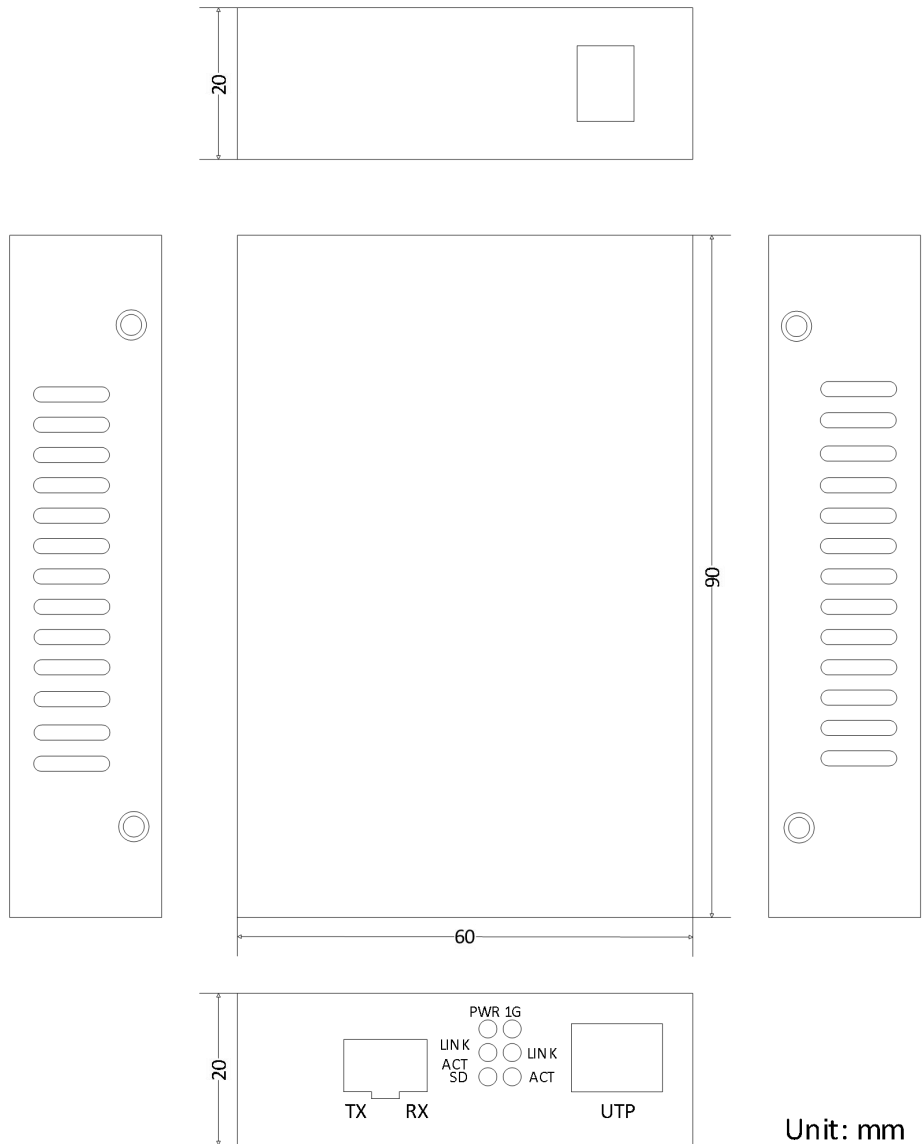
Parameter	Specification				
	S100U-1T1S	S100U-2T1S	S100U-2T2S	S100U-4T2S	S100U-2S
Cooper Port (RJ45)	1*10/100/1000Base-T RJ45(Auto)	2*10/100/1000Base-T RJ45(Auto)		4*10/100/1000Base-T RJ45(Auto)	-
Fiber Port	1*100/1000Base-X SFP		2*100/1000Base-X SFP		
Transmission Mode	Store and Forward (full wirespeed)				
Bandwidth	5Gbps	7.5Gbps	10Gbps	15Gbps	5Gbps
Packet Forwarding	2.98Mpps	4.46Mpps	5.95Mpps	8.93Mpps	2.98Mpps
MAC Address	2K				
Buffer	2.5M				
Watt	≤3W		≤3.5W	≤4W	≤3W
Cable Type (Copper)	Cat5/5e/6				-
Cable Type (Fiber)	Multi-mode 50/125μm, 62.5/125μm Single-mode 9/125μm				
Transmission Diantance	2km (MM fiber) or 160km (SM/WDM fiber)				
Wave Length	Depends on the used SFP module				
Power	External power DC 5-12V				
Network Protocol	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x				
Copper Transmission Distance	10BASE-T: Cat3,4,5 UTP (Max 100m) 100BASE-TX: Cat5 or later UTP (Max 100m) 1000BASE-TX: Cat6 or later UTP (Max 100m)				
Fiber Transmission Distance	Single mode single fiber(MAX 20km) Single mode double fiber (MAX 20km) Multiple mode double fiber(MAX 850m/2km) Optional 2-100km Optical Fiber Module				
LED Indicator	PWR:Power LED PDX: Working status LED TX Link: Network Port LED FX Link: (Optical fiber LED) Port: (Tx100 LED=10/100M + Tx100LED =1000M)				
Certificate	CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS; MA; CNAS				
Operating Temperature/Humidity	-15~65°C; 5%~90% RH non-condensing				
Storage Temperature/Humidity	-40~75°C; 5%~95% RH non-condensing				

Product size/Packing size (D*W*H)	90mm*60mm*20mm 230mm*125mm*55mm		120mm*60mm*20mm 230mm*125mm*55mm	90mm*60mm*20mm 230mm*125mm*55mm
Weight	0.25kg	0.3kg	0.35kg	0.25kg
Latency	1μs			
MTBF	> 50,000Hrs			
Lightning Protection Level	3KV 8/20μs; IP30			
Installation	Desktop (optional wall hanger+machine hanger parts)			
VLAN	Support for port-based VLANs			
Multicast Protocol	Supports IGMP Snooping			
Redundancy Technology	Supports ERPS ring network, supports static link aggregation			
Warranty	Whole device for 2 year			

Application



Technical Drawing




Order Information

Module	Description
S100U-1T1S	Unmanaged 1x 10/100/1000Base-T RJ45 to 1x 100/1000Base-X SFP Slot Gigabit Ethernet Media Converter
S100U-2T1S	Unmanaged 2x 10/100/1000Base-T RJ45 to 1x 100/1000Base-X SFP Slot Gigabit Ethernet Media Converter
S100U-2S	Unmanaged 1x 100/1000Base-X SFP to 1x 100/1000Base-X SFP Slot Gigabit Ethernet Media Converter
S100U-2T2S	Unmanaged 2x 10/100/1000Base-T RJ45 to 2x 100/1000Base-X SFP Slot Gigabit Ethernet Media Converter
S100U-4T2S	Unmanaged 4x 10/100/1000Base-T RJ45 to 2x 100/1000Base-X SFP Slot Gigabit Ethernet Media Converter

Further Information

 | Lighting the Path to Global Links

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Disclaimer

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