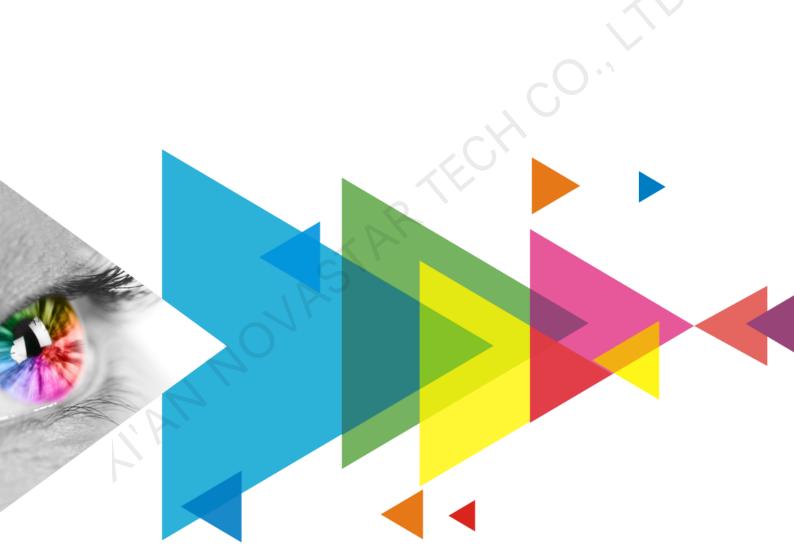


CVT4K-M

Fiber Converter

V1.0.1



Specifications

Change History

Document Version	Release Date	Description
V1.0.1	2020-11-20	 Updated the document template. Added the certification information. Optimized the feature description. Optimized the appearance description.
V1.0.0	2018-05-17	Optimized the dimensions diagram. First release

Introduction

The CVT4K-M is a high-performance fiber converter developed by NovaStar. It is used for conversion between optical signals and electrical signals, allowing for long-distance signal transmission that is stable and not easily interfered with. Easy to use, the CVT4K-M makes it convenient to connect terminal devices and simplifies on-site wiring connections.

Features

- 16x Neutrik Ethernet inputs or outputs
- 4x Multi-mode twin-core LC optical ports, two as master inputs or outputs and the others as backup
- Dual redundant power supplies, more stable and reliable
- 2 types of power connectors (3-pin power socket and PowerCON), satisfying different customer needs
- 2 types of control ports (type-B USB and Ethernet), more flexible and convenient to connect a control computer
- Various indicators on the front panel to show device status clearly

Appearance

Front Panel



Indicator	Color	Status	Description
1–16 Green		Always on	The Ethernet cable connection is normal.
	Yellow	Flashing	There is data transmission.
		Always on	There is no data transmission.
OPT1-OPT4	Green	Always on	The optical fiber connection is normal.
PWR	Red	Always on	The power supply is normal.
STAT	Green	Flashing	The device is functioning normally.

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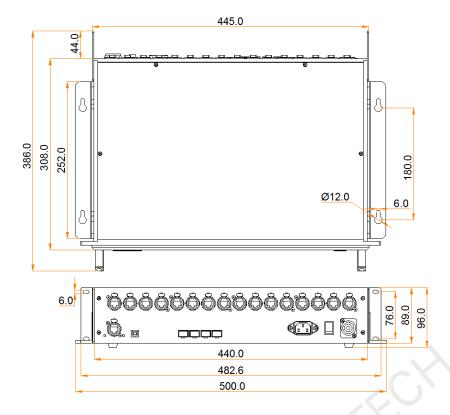
Rear Panel



Input and Output				
OPT1-OPT4	4x optical ports for data input or output OPT1 corresponds to Ethernet ports 1–8 and OPT2 corresponds to Ethernet ports 9–16. OPT3 is the backup of OPT1 and OPT4 is the backup of OPT2.			
	Description of the optical module: Installed at the factory, hot pluggable Transmission rate: 9.95 Gb/s to 11.3 Gb/s Wavelength: 850 nm Transmission distance: 300 m	 Optical fiber selection: Model: OM3/OM4 Transmission mode: Multi-mode twincore Cable diameter: 50/125 μm Connector type: LC Insertion loss: ≤ 0.2 dB Return loss: ≥ 45 dB 		
1–16	16x Neutrik Gigabit Ethernet ports for data input or output			
Control				
ETHERNET	Ethernet port for control computer connection			
USB	Type-B USB port for control computer connection			
Power	100			
AC 100-240V~50/60Hz	Power input connectors, including a 3-pin power socket and a PowerCON socket			

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Dimensions



Tolerance: ±0.3 Unit: mm

Specifications

Electrical Specifications	Input voltage	AC 100 V to 240 V	
	Rated power consumption	10 W	
Operating Environment	Temperature	-20°C to +60°C	
	Humidity	10% RH to 90% RH, non-condensing	
Storage Environment	Temperature	−20°C to +70°C	
Physical Specifications	Dimensions	500.0 mm × 386.0 mm × 96.0 mm	
	Net weight	4.6 kg	
Packing Information	Carrying case	530.0 mm × 193.0 mm × 420.0 mm, white cardboard box	
	Accessory box	405.0 mm × 290.0 mm × 48.0 mm, white cardboard box	
		Accessories: 1x Power cord, 1x Ethernet cable, 1x USB cable, 10x Screws, 1x Certificate of Approval	
	Packing box	550.0 mm × 440.0 mm × 210.0 mm, craft paper box	
Certifications	CE, FCC, UL & cUL, EAC, CB, IC		

FCC Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Official website www.novastar.tech

Technical support support@novastar.tech