

PRODUCT MANUAL

1. Product Informaton

Product Name: Fiber HDMI-USB Converters

Model: 20KM Optical Date SC Video Transceiver

Batch/Serial Number: ODST417

2. MANUFACTURER & EU REPRESENTATIVE INFO

- Manufacturer: Shenzhen caili communication technology co., ltd
- EU Authorized Representative: EAST SEVEN

3. Compliance Information

Example:

- For **Electrical or Electronic Products:** relating to electrical safety, electromagnetic compatibility, or environmental compliance, conformity marking (e.g., CE) and related documentation may be required.
- For **Toys:** additional safety requirements, warnings, or assessments may apply.

NOTE: This product must comply with all applicable safety and regulatory requirements in the market where it is sold. Sellers must assess which requirements and regulations apply based on the actual product type, function, and destination market.



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4. Safety & Warnings **【Mandatory by Category】**

这块应根据实际商品性质填写，可参考网规[全球速卖通关于售往欧盟的产品警告信息合规须知]

Important Safety Information

Read all instructions before use. Failure to follow these instructions may result in damage to the product or personal injury.

- Warning: Keep the device and its cord out of reach of children under 3 years old.
- Keep away from children unless supervised by an adult.
- Do not use this product for purposes other than its intended use.
- Inspect the product before each use; do not use if damaged.
- Follow installation and operation guidelines to avoid injury.
- [如果是电气产品] Do not expose to water or moisture.
- [如果是锋利/危险品] Handle with care to avoid cuts or injuries.

5. Instructions for Use

Fiber HDMI-USB Converters (often called KVM fiber optic extenders) are devices that enable lossless transmission of HDMI audio/video and USB signals over long distances via fiber optic cables. They are primarily used for remote control of computers, servers, or monitoring hosts.

Applicable Scenarios

Core Functions:

HDMI Video Transmission: Uncompressed transmission of high-definition/4K video signals, supporting 3D, HDR, Dolby Atmos, etc.

USB Signal Passthrough: Remote use of USB devices (mouse, keyboard, USB flash drive, touchscreen, etc.).

KVM Control: Remote control of a remote host using a single keyboard and mouse, achieving "remote operation localized".

Long-Distance Transmission:

Multimode Fiber: Approximately 300 meters - 2 kilometers

Single-mode Fiber: Standard 10 km/20 km, maximum up to 80 km

Strong Anti-Interference: Fiber optic transmission, completely unaffected by electromagnetic and radio frequency interference, ensuring stable signal.

II. Typical Specifications

Video Resolution: Supports up to 4K@60Hz (4:4:4), bandwidth up to 18Gbps (HDMI 2.0)

Fiber Optic Interface: SC/FC/ST single-mode single-fiber/dual-fiber

USB Standard: USB 2.0 (mainstream)/USB 3.0

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Power Supply: DC 5V/1A

Others: Supports EDID learning, audio embedding/de-embedding, local loop-out, RS232 data transmission

III. Application Scenarios

Security Monitoring: Remote control of monitoring room matrix, hard disk recorder

Command Center: Remote control of servers, workstations

Multimedia Classroom/Conference: Transmission of lectern signals to large screens or remote classrooms

Industrial Control: Stable signal transmission in harsh electromagnetic environments

Home Theater: Ultra-long distance (100 meters+) connection of audio-visual equipment.

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