Analog CCTV Video Copper to Fiber Media Converter

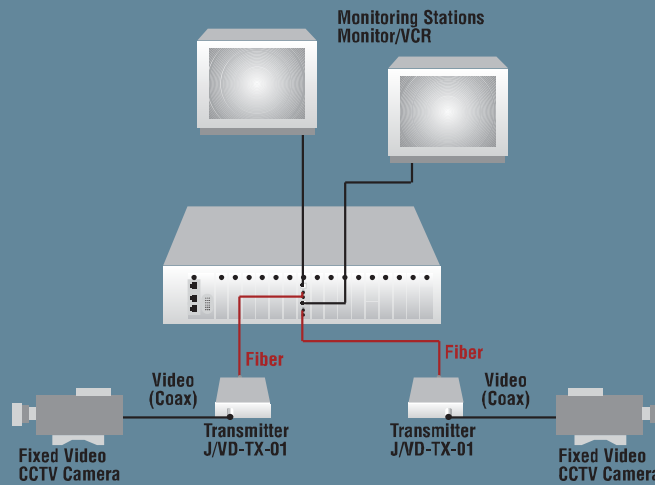LINK PASS THROUGH

CVIDF20xx-15x

NEW

Transition Networks's Point System™ Chassis Video Media Receiver, when paired with our camera-mounted transmitter J/VD-TX-01, enables the transport of analog CCTV video over fiber infrastructure for extended reach video surveillance or security installations. And with Transition's unique **Extended Fiber Receive Mode**, the RX sensitivity can be adjusted to accommodate even greater fiber link distances.

The chassis card is available in either a single video channel or the dual video channel configuration, allowing for density flexibility that can be tailored to your application. All video conversion is performed in real time and the **Automatic Gain Control** feature automatically adjusts the video contrast and brightness to maintain the quality and integrity of the original video stream.

Connect uni-directional analog video devices over fiber

Monitoring Stations
Monitor/VCR

Fiber   Fiber

Video
(Coax)   Video
(Coax)

Transmitter
J/VD-TX-01   Transmitter
J/VD-TX-01

Fixed Video
CCTV Camera   Fixed Video
CCTV Camera

Features

▶ AM Modulation

▶ NTSC, PAL, SECAM compatibility

▶ Compatible with all video CCTV equipment

▶ Real Time Full Color Video

▶ Automatic Gain Control

▶ Link Pass Through   *see next page*

▶ Video Specification:
   • Input Video: .5 to 2-volt pk-pk (75 ohms)
   • Bandwidth: 5 Hz – 10 MHz
   • Differential Gain: < 5 %
   • Differential Phase: < 5°
   • Tilt: < 1%
   • Signal/Noise Ratio: 60dB

▶ Extended Fiber Receive Mode

▶ Single or Dual Video Channel configurations

Specifications

Video Formats	NTSC, PAL, SECAM
Optical Specs	**Multimode:** 850nm 6.0 dB Link Budget or 11.0 dB Link Budget **Single Mode:** 1310nm 10.0 dB Link Budget or 15.0 dB Link Budget
Status LEDs	**PWR (Power):** ON = power connected **RX1:** ON=Fiber Video feed in Channel 1 **RX2:** ON = Fiber Video feed in Channel 2 (dual only)
Jumpers	**JP1:** Normal/Extended Mode (Circuit 1) **JP5:** Normal/Extended Mode (Circuit 2)
Dimensions	**Width:** 0.86" [22 mm] **Depth:** 5.0" [127 mm] **Height:** 3.4" [86 mm]
Power Consumption	2 watts (single card) 3 watts (dual card)
Environment	See chassis specifications
Shipping Weight	1 lb. [0.45 kg]
Regulatory Compliance	FCC Class A, EN55022 Class A, EN55024, CE Mark
Warranty	Lifetime

Ordering Info

CVIDF2011-150: Video Receiver (single)
BNC (75 ohm)
to Multimode (ST)
[1 km / 0.6 mi.] (normal mode)
[2 km / 1.2 mi.] (extended mode)

CVIDF2011-155: Video Receiver (dual)
(2) BNC (75 ohm)
to (2) Multimode (ST)
[1 km / 0.6 mi.] (normal mode)
[2 km / 1.2 mi.] (extended mode)

CVIDF2013-150: Video Receiver (single)
BNC (75 ohm)
to Multimode (SC)
[1 km / 0.6 mi.] (normal mode)
[2 km / 1.2 mi.] (extended mode)

CVIDF2013-155: Video Receiver (dual)
(2) BNC (75 ohm)
to (2) Multimode (SC)
[1 km / 0.6 mi.] (normal mode)
[2 km / 1.2 mi.] (extended mode)

CVIDF2012-150: Video Receiver (single)
BNC (75 ohm)
to Single Mode (ST)
[10 km / 6.2 mi.] (normal mode)
[20 km / 12.4 mi.] (extended mode)

CVIDF2012-155: Video Receiver (dual)
(2) BNC (75 ohm)
to (2) Single Mode (ST)
[10 km / 6.2 mi.] (normal mode)
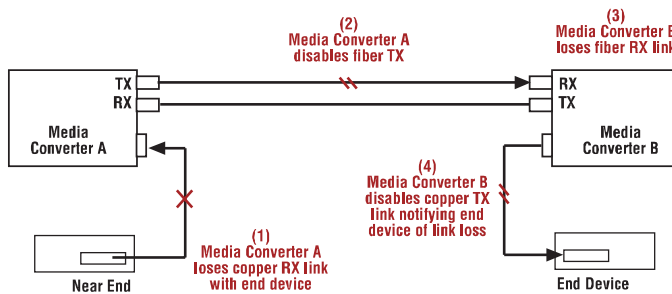[20 km / 12.4 mi.] (extended mode)

LINK PASS
THROUGH

▸ Link Pass Through

Link Pass Through is a troubleshooting feature that prevents media converters from isolating link failures and it allows end devices to be notified in the event of a loss of link. Link Pass Through provides the media converter with the ability to monitor both the fiber and the copper RX ports for a loss of signal. If a loss of RX signal occurs on one media port, the converter will automatically disable the TX signal on the other port. By shutting down the fiber TX port, the link failure is "passed through" to the remote converter and device (see diagram below).

▸ End device automatically notified of link loss

▸ Prevents loss of valuable data unknowingly transmitted over an invalid link

(2)
Media Converter A
disables fiber TX

(3)
Media Converter B
loses fiber RX link

TX
RX

RX
TX

Media
Converter A

Media
Converter B

(4)
Media Converter B
disables copper TX
link notifying end
device of link loss

(1)
Media Converter A
loses copper RX link
with end device

Near End

End Device

If someone tells you media conversion is a commodity product that anyone can bring to market, they probably haven't looked at the extensive product suite offered by Transition Networks. With the industry's most comprehensive offering of full-featured products, Transition's media converters stand out as "the choice" among industry IT professionals.

Generally, media converters are low-level OSI model devices with no IP or MAC addresses and therefore are transparent to the network. This "transparency" makes them very inexpensive and easy to use, but also can make troubleshooting the network very difficult. In an effort to overcome this difficulty and to make media converters "visible" to network managers, Transition has designed their full-featured products to include the most advanced features on the market today.