



NanoConverter is a family of small form factor solutions for transmitting and receiving standard based video signals over different physical media such as coaxial cables and optical fibre.

Different video formats and interface standards are supported from the transmitter and receiver side including DVI, HDMI, CVBS, YPbPr, RGB, 3G-SDI, HD-SDI and SD-SDI.

CVP-3G-FC - Features

- + Dual SDI video output up to 3Gbit/s (1080p60)
- + Error free optical reception
- + Input range 1260nm - 1620nm
- + Simplex LC/PC single mode input connection
- + SMPTE297M-2006 compliant
- + Hot pluggable
- + 10km distances when used with CVP-3G-CF
- + Supply voltage: 12V DC regulated, power supply included
- + Compact size 105mm x 40mm x 22mm
- + Complies to CE and RoHS directives



3Gbit/s
1080p50/p60

CV-3G-FC - Boardlevel Product

- + The CV-3G-FC is offered as a boardlevel product for system integrators
- + Feature set is identical to CVP-3G-FC model

Description

The CVP-3G-FC and CV-3G-FC are compact fiber optic receivers designed to combat the restrictions involved with the distribution of uncompressed, highest quality and highest data rate video signals over long distances.

When paired with the fiber optic transmitters (CVP-3G-CF/CV-3G-CF), these modules provide a very cost effective optical transmission / receiver system for signals up to 1080p60 (3Gbit/s), while preserving full uncompressed image quality.

The CVP-3G-FC/CV-3G-FC is compatible with any video signal according to SMPTE425M, SMPTE292M and SMPTE259M.



Technical Specification

OPTICAL INPUT:

1x optical fiber input, simplex using LC/PC connection
SMPTE297M-2006
Hot pluggable
Input range (wavelength) 1260nm to 1620 nm
RX sensitivity -3dBm to -19dBm
RX active LED on side of module
SMF - single mode fiber

SDI OUTPUT:

2x SDI video on 75 Ohm BNC connector
SMPTE424M, SMPTE292M and SMPTE259M compliant
Multistandard operation from 270Mbit/s to 3Gbit/s
Return loss: > 15dB to 1,5GHz and > 10dB up to 3GHz

Transmission distance:

10km when used with CVP-3G-CF or CV-3G-CF

Power:

+12VDC power supply (included)
Supports external power input from +9VDC to +14VDC
Power LED on side of module

Size:

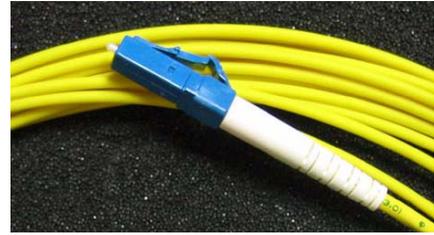
105mm x 40mm x 2mm (4,13" x 1,57" x 0,86")

Order code (model):

CVP-3G-FC
CV-3G-FC (board only, no housing)

Optical Connector

LC/PC type example:



Optical connector and cable not included.

Inputs and LED Indicators



Optical Fiber Input (LC connector)



LEDs - (P) Power - (R) Optical Receiver Active



Power Supply Connect - 12V DC to center contact