



Features

- SMPTE and HDBaseT compliant
- Uncompressed HD-SDI Video over CAT5e/6 to 100 meters
- Full HD 1080p compatible and 4K ready
- Real-time video transmission up to 3 Gbps
- TX: One CAT5e/6 output, one SDI input BNC connector and one BNC loopback output
- RX: One CAT5e/6 input, one CAT5e/6 (UTP) output for daisy-chain capabilities, and one SDI output BNC connector
- Supports embedded digital audio
- Support format conversion, over the copper, in conjunction with the OTC Series
- Supports CAT5e, Cat6, CAT6a, CAT7, UTP / STP or FTP cables
- 3-Year warranty

Applications

- Studio applications
- Digital signage / remote kiosks
- Command and control centers
- Digital cinema
- Conference rooms
- Live events
- Houses of worship

3G HD-SDI & HDBaseT Compliance over CAT5e/6

The Optiva OTC-1HDP provides uncompressed transmission of 1 channel of 3G HD-SDI with embedded digital audio, up to 100 meters on a single CAT5e/6 cable. They also provide daisy-chaining capabilities for multi-drop digital signage applications up to 100 meters point-to-point between displays. In addition, our innovative Optiva system was designed to allow format conversion, such as 3G HD-SDI/HD-SDI/SDI to DVI or HDMI, over the copper.

The Optiva line of products also includes insert cards for up to 16 channels of multiplexing / demultiplexing, 16x16 matrix switching, optical add/drop, as well as remote system monitoring.

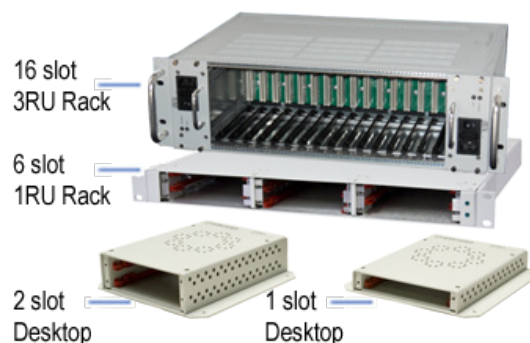
System Design

Optiva insert cards support both 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures

optiva PLATFORM

(Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accommodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.

Enclosure Options



OTC-1HDP

3G HD-SDI, Embedded Audio & HDBaseT



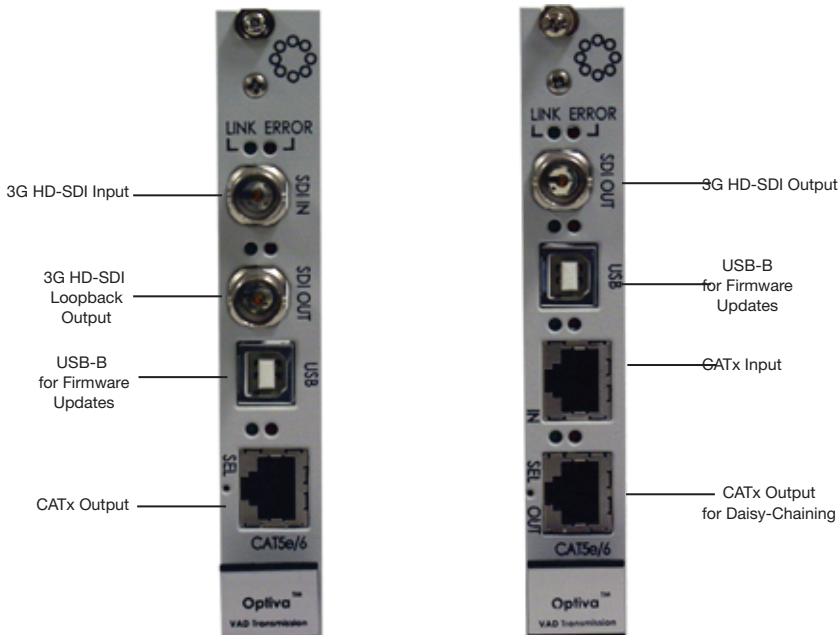
PRELIMINARY DATASHEET

CATX

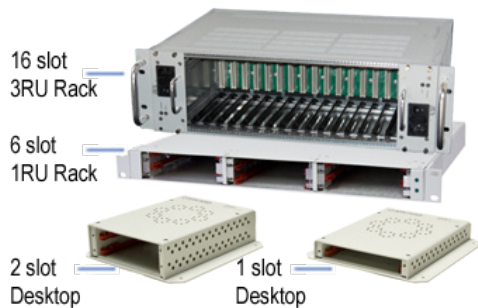
Models

Transmitter	Receiver
OTC-1HDPT	OTC-1HDPR

Connection Diagram



Enclosure Options



General

Specifications	Values
Dimensions (Insert Card)	6.3"D x 0.8"W x 4.0"H
Weight	11 oz.
Operating Temperature	0° to +50°C
Storage Temperature	-30°C to +85°C
Humidity	0 to 95% (non-condensing)
Power Consumption	<6 Watts
Warranty	3 Years

Video

Specifications	Values
Standards	SMPTE 424M, 292M, 259M
Data Rate	19 Mbps to 3 Gbps
Connector	BNC (IEC 60169-8) Gold Plated
Video Modes	480i/480p, 720p, 1080i/1080p
Max Resolution	1920 x 1080 @ 50/60 Hz
Pathological Test Code	RP-178
HDCP Compliance	1.2

Audio

Specifications	Values
Embedded Digital Audio	SMPTE 272M, 299M

CATx

Specifications	Values
Connector	TX: 1x RJ45 output RX: 1x RJ45 input, 1x RJ45 output for daisy-chaining
Protocol	HDBaseT compliance
Cables	CAT5e, Cat6, CAT6e, CAT7, UTP / STP or FTP
Protocol	HDBaseT compliance
Distance	Up to 100m
Data Rate	9.25 Gbps

Monitoring & Control

Specifications	Values
Local	Front panel LED status and alert indicators
Remote	OptivaView® SNMP Management Suite*

* Requires OptivaView SNMP Controller Card (Model: OPV-CTLR)

Compliance (Pending)

