

Optiva® NTSC/PAL Video Over IP

Composite Video

Optiva® SERIES Professional Media Transport



Features

- Optiva® IP Transport Technology
- CAT5 Ethernet Cables up to 100M
- NTSC/PAL Auto-detect
- Multiple Resolutions Supported
- MPEG4 Compression Technology
- Low Power Consumption & Heat Dissipation
- Ultra-low Video Latency
- RTSP Compliant
- Control & Management Software

Applications

- Security Camera Video Transport
- Short-Haul Video Feeds (<100M)
- CCTV Video Monitoring
- Multi-building Security Systems
- Internet based video-teleconferencing

Optiva®'s Ethernet Transport medium is the perfect alternative to fiber optics for applications that do not require the benefits of optical cables. Designed for short distance runs and high density, the OTS-4VT-IP has 4 channels of Compressed Analog Video per insert card. This allows for up to 64 channels of video per 3RU rackmount enclosure! Also available is an add-on module for supporting 2 audio channels per video channel. With a low power consumption and minimal heat dissipation, this system is ideal for installations with tight space constraints.



IP Transport with Optiva® compliments existing technologies and infrastructures well. This system can utilize existing Private or Public IP Networks with minimal required configuration to get started. It also comes with a software package that allows monitoring and management of the video streams as well as system health remotely.

System Design

Optiva® insert cards support both 19" rack mount and compact table top or wall mountable enclosures. The 19" rack mount enclosure (Model: OT-CC-16-100) can support up to 16 insert cards. It also supports dual-redundant hot-swappable power supplies (Model: OT-CC-16-100-RPS) utilizing two PS-100 power supplies or two PS-200 power supplies (Model: OT-CC-16-200-RPS). Also available in the rackmount form factor is the 4-slot (Model: OT-CC-4-1U) which houses 4 insert cards in 1RU of rack space. The compact one slot (Model: OT-DTCR-1) and two slot (Model: OT-DTCR-2) enclosures both use an external power supply (Model: PS-9012). The four slot enclosure (Model: OT-DTCR-4) uses the standard PS-100 or PS-200 power supply.

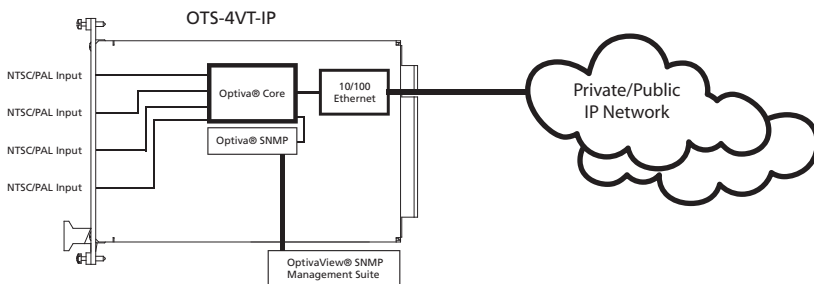
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Composite Video

Models (over IP)

| IP TRANSMITTER | IP RECEIVER |
|----------------|-------------|
| OTS-4VT-IP-IC | N/A |

Functional Diagram (over IP)



Models (over Fiber Optics)

| OPTICAL TRANSMITTER | OPTICAL RECEIVER |
|---------------------|-------------------|
| OTS-3VT-A0-XX-IC | OTS-3VR-A0-XX-IC |
| OTS-3VT-A1-XX-IC | OTS-3VR-A1-XX-IC |
| OTS-3VT-A2-XX-IC | OTS-3VR-A2-XX-IC |
| OTS-3VT-A2D-XX-IC | OTS-3VR-A2D-XX-IC |
| OTS-3VT-A3-XX-IC | OTS-3VR-A3-XX-IC |
| OTS-3VT-A3D-XX-IC | OTS-3VR-A3D-XX-IC |
| OTS-3VT-A4-XX-IC | OTS-3VR-A4-XX-IC |

■ For Ordering, please substitute "XX" in the model for one of the following optical connectors: ST, FC, SC or LC

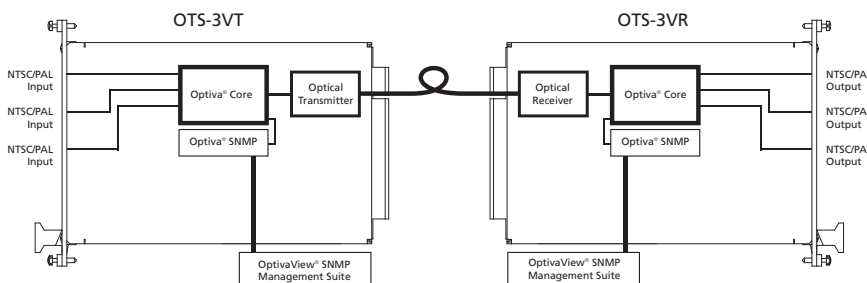
Optical Specifications

| CODE | FIBER TYPE | WAVELENGTH | OPTICAL BUDGET | DISTANCE |
|------|------------|---------------------|----------------|----------|
| A0 | Multimode | 850 nm | 5 dB | 100 M |
| A1 | Multimode | 1310 nm | 7 dB | 1 Km |
| A2 | Singlemode | 1310 nm | 7 dB | 10 Km |
| A2D | Singlemode | 1310 nm (D) | 12 dB | 20 Km |
| A3 | Singlemode | 1550 nm | 17 dB | 40 Km |
| A3D | Singlemode | 1550 nm (D) | 25 dB | 60 Km |
| A4 | Singlemode | 1270-1610 nm (CWDM) | Varies | 20-70 Km |

■ Chromatic dispersion as well as other losses should also be taken into account

■ Stated distances are the maximum range, shorter distances may require attenuation

Functional Diagram (over Fiber Optics)



Video (over IP)

| | |
|-------------------|--------------------------|
| Standards | NTSC/PAL Auto-detect |
| Connections | Up to 4 streams per card |
| Connector | BNC |
| Compression | MPEG4 |
| Network Bandwidth | Varies |

Ethernet Transport

| | |
|------------------|----------------|
| Standards | IEEE 802.3 |
| Bandwidth | 100 Mbps (Max) |
| Connector | RJ45 (CAT5) |
| IP Encapsulation | UDP/RTSP |

Video (over Fiber Optics)

| | |
|-----------------------|---------------------------------|
| Standards | SMPTE 170; RS-250C (Short Haul) |
| Bit Resolution | 12-Bit Digital Transmission |
| Level | 1.0 Volt p-p |
| Bandwidth | 5.5 MHz |
| Differential Gain | < 2% |
| Differential Phase | < 0.7° |
| Passband Ripple | <± 0.2 dB to 5.5 MHz |
| Chroma/Luma Delay | < 12ns |
| Compatibility | NTSC, PAL, SECAM |
| Signal to Noise Ratio | > 67 dB |
| Connector | BNC (IEC 60169-8) |

General

| | |
|--------------------------|-------------------------|
| Dimensions (Insert Card) | 6.3"D x 0.8"W x 4.0"H |
| Weight | 11 oz. |
| Operating Temperature | 0° C to +50° C |
| Storage Temperature | -30° C to +85° C |
| Humidity | 0 to 95% non-condensing |
| Power Consumption | ~8 Watts |

Monitoring & Control

| | |
|--------|---|
| Local | Front panel LED status and alert indicators |
| Remote | OptivaView® SNMP Management Suite |



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