

N3546 & N3746 Series

Six Channel Digital Video Transmission System



Features

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- LED indicators for monitoring of system operating status
- Surge protection
- Highest optical dynamic range
- Immune to EMI and RFI
- Dense structure for easy installation
- Hot swappable rack mount cards
- Automatic re-settable fuses, short circuit protection
- 12 VDC or 24 VAC power supply
- Industry standard connectors
- No user adjustments required

Description

Infinova's N3546 and N3746 series provides the ability to transmit 6 digitally encoded video channels over one optic fiber.

Modular in design, the N3546 and N3746 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module is accomplished with N3910-2S and can be placed on a desktop or mounted to a wall.

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Ordering Information

| | |
|-----------|---------------------------------------|
| N3546TA-M | FO MM TX, 6V In, Module, 12VDC/24VAC |
| N3546TA-R | FO MM TX, 6V In, Card, 2-Slot |
| N3546RA-M | FO MM RX, 6V Out, Module, 12VDC/24VAC |
| N3546RA-R | FO MM RX, 6V Out, Card, 2-Slot |
| N3746TA-M | FO SM TX, 6V In, Module, 12VDC/24VAC |
| N3746TA-R | FO SM TX, 6V In, Card, 2-Slot |
| N3746RA-M | FO SM RX, 6V Out, Module, 12VDC/24VAC |
| N3746RA-R | FO SM RX, 6V Out, Card, 2-Slot |

| Fiber Type | Optical Budget (dB) | Wavelength (nm) | Range (km) |
|---|---------------------|-----------------|------------|
| Multi-mode | 7 | 1310 | 2.2 |
| Single-mode | 17 | 1310 | 25 |
| *Higher output lasers available for range over 25km | | | |

Note:

- Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
- Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @ 1310nm on SM fiber, and include a 3dB safety factor
- Range estimates for multimode are based on 1000MHz/km fiber

Accessories

Power Supply

| | |
|--------------|-------------------------|
| N3921-12D-1: | 12 VDC (120 VAC), 10 VA |
| N3921-12D-2: | 12 VDC (230 VAC), 10 VA |
| N3921-24A-1: | 24 VAC (120 VAC), 20 VA |
| N3921-24A-2: | 24 VAC (230 VAC), 20 VA |

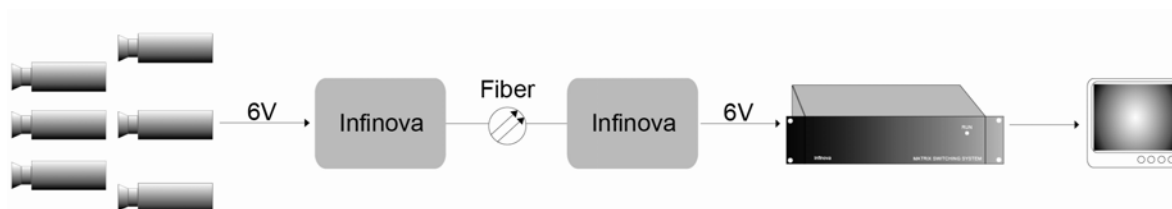
Applications

- Smart buildings
- Security and surveillance
- Intelligent transportation system
- Highway surveillance system

Configurations

- Compact 2 slot modules and 2 slot card units
- 18 slots per 19" x 3U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3U subrack; 100 W / 250 W dual power supply

System Diagram



Specifications

| | | |
|---------------------|--|--|
| Video Performance | Video Channel | 6 |
| | Video Input Impedance | 75Ohm |
| | Video Voltage | 1.0Vp-p |
| | Bandwidth | 5Hz~6.5MHz |
| | Differential Gain | 1% (typical) |
| | Differential Phase | 1° (typical) |
| | Signal-to-Noise Ratio | 67dB (weighted) |
| | PCM Encoding | 10 bits |
| Optical Performance | Multi-mode | |
| | Output Power | -12dBm (typical) |
| | Receiver Sensitivity | -19dBm (typical) |
| | Wavelength | 1310nm |
| | Connector | ST |
| | Single-mode | |
| | Output Power | -5dBm (typical) |
| | Receiver Sensitivity | -22dBm (typical) |
| | Wavelength | 1310nm |
| | Connector | FC |
| LED Indicators | Power On | Red |
| | Optical Link Loss | Red |
| | Video Input/Output Presence | Green |
| General Parameters | Operating Temperature | -40°F ~ 167°F (-40°C ~ 74°C) |
| | Storage Temperature | -40°F ~ 185°F (-40°C ~ 85°C) |
| | Operating Humidity | 0 ~ 95% RH (non-condensing) |
| | Card Dimensions (W xH xD) | 1.57" x 5.08" x 6.73" (40mm x 129mm x 171mm) |
| | Module Dimensions (W xH x D) | 1.73" x 6.22" x 7.87" (44mm x 158mm x 200mm) |
| | Power Consumption | 3.1W |
| | Card Weight | 1.06lbs. (0.48kg) |
| | Module Weight | 1.81lbs. (0.82kg) |
| | Mean Time Between Failures | >100,000 Hrs |
| Certifications | FCC: Part 15 Subpart B (Certificate No.: BCT09HC-715E) | |
| | CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 (Certificate No.: BCT09HC-714E) | |
| | ISO 9001:2008 | |
| Compliance | UL, cUL | |