

# N3510, N3511, N3710 & N3711 Series

## Digital Video Transmission System



### Features

- 8 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
- 12VDC or 24VAC power supply
- Industry standard connectors
- No user adjustments required

### Description

Infinova's N3510, N3511, N3710 & N3711 series provides the ability to transmit 1 digitally encoded video channel over one optic fiber.

Modular in design, the N3510, N3511, N3710 & N3711 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack.

Stand-alone module is accomplished with N3910-1S and can be placed on a desktop or mounted to a wall. There are mini module transmitters N3510TA-M, N3710TA-M available for space efficiency.

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## Ordering Information

N3510TA-M FO MM TX, 1V In, Mini Module, 12VDC/24VAC  
 N3511TA-M FO MM TX, 1V In, Module, 12VDC/24VAC  
 N3511TA-R FO MM TX, 1V In, Card, 1-Slot

N3511RA-M FO MM RX, 1V Out, Module, 12VDC/24VAC  
 N3511RA-R FO MM RX, 1V Out, Card, 1-Slot

N3710TA-M FO SM TX, 1V In, Mini Module, 12VDC/24VAC  
 N3711TA-M FO SM TX, 1V In, Module, 12VDC/24VAC  
 N3711TA-R FO SM TX, 1V In, Card, 1-Slot

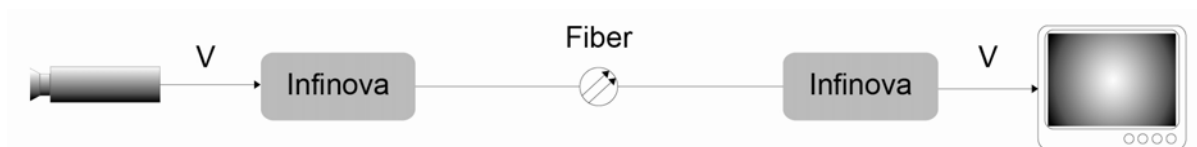
N3711RA-M FO SM RX, 1V Out, Module, 12VDC/24VAC  
 N3711RA-R FO SM RX, 1V Out, Card, 1-Slot

| Fiber Type  | Optical Budget (dB)                                 | Wavelength (nm) | Range (km) |
|-------------|-----------------------------------------------------|-----------------|------------|
| Multi-mode  | 12                                                  | 1310            | 4.4        |
| Single-mode | 20                                                  | 1310            | 25         |
|             | *Higher output lasers available for range over 25km |                 |            |

### Note:

1. Distance is limited to fiber loss, splices, chromatic dispersion and bandwidth
2. Range estimates are based on 1.0dB/km @ 1310nm on MM fiber, 0.35dB/km @1310nm and 0.25dB/km @1550nm on SM fiber, and include a 3dB safety factor
3. Range estimates for multimode are based on 500MHz/km fiber

## System Diagram



## 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 1 slot modules and 1 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

## Specifications

|                     |                                    |                                                                                                                                                  |
|---------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Performance   | Video Channel                      | 1                                                                                                                                                |
|                     | 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                       | 8 bits                                                                                                                                           |
| Optical Performance | <b>Multi-mode</b>                  |                                                                                                                                                  |
|                     | Output Power                       | -15dBm (typical)                                                                                                                                 |
|                     | Receiver Sensitivity               | -27dBm (typical)                                                                                                                                 |
|                     | Wavelength                         | 1310nm                                                                                                                                           |
|                     | Connector                          | ST                                                                                                                                               |
|                     | <b>Single-mode</b>                 |                                                                                                                                                  |
|                     | Output Power                       | -10dBm (typical)                                                                                                                                 |
|                     | Receiver Sensitivity               | -30dBm (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 ×H ×D)          | 0.79" x 5.08" x 6.73" (20mm x 129mm x 171mm)                                                                                                     |
|                     | Module Dimensions (W ×H × D)       | 0.94" x 6.22" x 7.87" (24mm x 158mm x 200mm)                                                                                                     |
|                     | Mini Module Dimensions (W × H × D) | 4.61" x 2.91" x 1.14" (117mm x 74mm x 29mm)                                                                                                      |
|                     | Power Consumption                  | 2.0W                                                                                                                                             |
|                     | Card Weight                        | 0.84lbs. (0.38kg)                                                                                                                                |
|                     | Module Weight                      | 1.57lbs. (0.71kg)                                                                                                                                |
|                     | Mini Module Weight                 | 0.44lbs. (0.2kg)                                                                                                                                 |
|                     | Mean Time Between Failures         | >100,000 Hrs                                                                                                                                     |
| Certifications      | N3511/N3711                        | FCC: Part 15 Subpart B (Certificate No.: BCT08KC-877E)<br>CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 (Certificate No.: BCT08KC-876E) |
|                     | ISO 9001:2008                      |                                                                                                                                                  |
| Compliance          | N3511/N3711                        | UL, cUL                                                                                                                                          |