

N3544 & N3744 Series

Four 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 N3544 and N3744 series provides the ability to transmit 4 digitally encoded video channels over one optic fiber.

Modular in design, the N3544 and N3744 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.

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Ordering Information

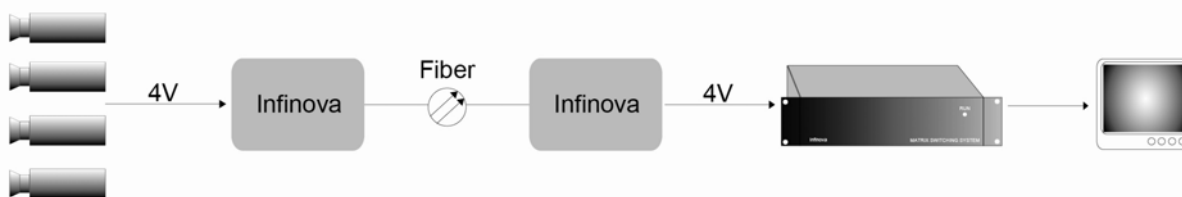
N3544TA-M	FO MM TX, 4V In, Module, 12VDC/24VAC
N3544TA-R	FO MM TX, 4V In, Card, 1-Slot
N3544RA-M	FO MM RX, 4V Out, Module, 12VDC/24VAC
N3544RA-R	FO MM RX, 4V Out, Card, 1-Slot
N3744TA-M	FO SM TX, 4V In, Module, 12VDC/24VAC
N3744TA-R	FO SM TX, 4V In, Card, 1-Slot
N3744RA-M	FO SM RX, 4V Out, Module, 12VDC/24VAC
N3744RA-R	FO SM RX, 4V Out, Card, 1-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

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	4
	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)	0.79" x 5.08" x 6.73" (20mm x 129mm x 171mm)
	Module Dimensions (W xH x D)	0.94" x 6.22" x 7.87" (24mm x 158mm x 200mm)
	Power Consumption	2.9W
	Card Weight	0.90lbs. (0.41kg)
	Module Weight	1.65lbs. (0.75kg)
	Mean Time Between Failures	>100,000 Hrs
Certifications	FCC: Part 15 Subpart B (Certificate No.: BCT09HC-717E)	
	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 (Certificate No.: BCT09HC-716E)	
	ISO 9001:2008	