

## N3555 & N3755 Series

### Four Channel Digital Video with 2-ch Audio and 2-ch Data



#### Features

- 10 bits digitally encoded video transmission
- NTSC, PAL, and SECAM auto compatible
- Surface mount technology
- Multiple audio format on-board jumper configurable
- Factory default setting RS-232 optional
- On-board DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- LED indicators for monitoring of system operating status
- On-board jumper activation of 120 Ohm termination resistor
- 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 N3555 and N3755 series provides the ability to transmit 4 digitally encoded video channels with 2-ch audio and 2-ch data over one optic fiber. Data format supports factory default setting RS-232, DIP selectable RS-422, RS-485, Manchester or Biphase.

Modular in design, the N3555 and N3755 series can be rack-mounted or used as a stand-alone module. Rack mounting requires the N3910 series subrack. Stand-alone module uses the N3910-2S and can be placed on a desktop or mounted to a wall.

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## Ordering Information

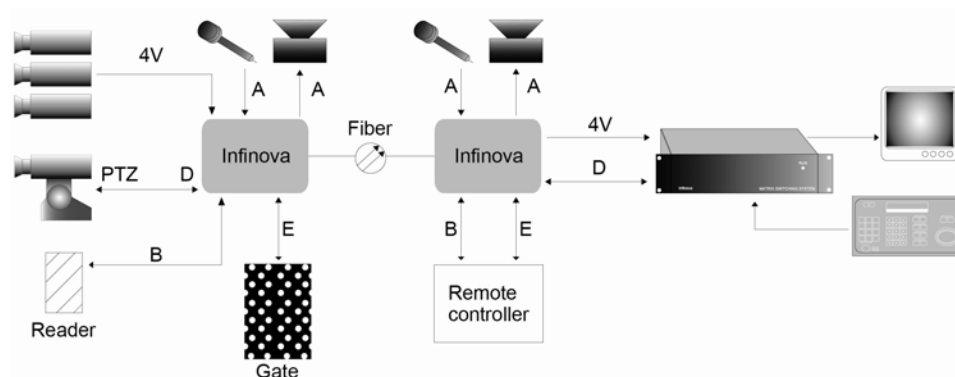
N3555TA-2A2D-M	FO MM TRX, 4V In, 2D IO, 2A IO, Module, 12VDC/24VAC
N3555TA-2A2D-R	FO MM TRX, 4V In, 2D IO, 2A IO, Card, 2-Slot
N3555RA-2A2D-M	FO MM TRX, 4V Out, 2D IO, 2A IO, Module, 12VDC/24VAC
N3555RA-2A2D-R	FO MM TRX, 4V Out, 2D IO, 2A IO, Card, 2-Slot
N3755TA-2A2D-M	FO SM TRX, 4V In, 2D IO, 2A IO, Module, 12VDC/24VAC
N3755TA-2A2D-R	FO SM TRX, 4V In, 2D IO, 2A IO, Card, 2-Slot
N3755RA-2A2D-M	FO SM TRX, 4V Out, 2D IO, 2A IO, Module, 12VDC/24VAC
N3755RA-2A2D-R	FO SM TRX, 4V Out, 2D IO, 2A IO, Card, 2-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	7	1310/1310	2.2
Single-mode	17	1310/1550	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 and 0.25dB/km @ 1550nm 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-1:	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 3 U subrack; 100 W / 250 W power supply
- 15 slots per 19" x 3 U 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
Audio Performance	Format	600 Ohm (balanced/unbalanced) (Jumper Selectable); 10kOhm/47kOhm (unbalanced)
	Audio Level	-6 ~ +6dBm
	Frequency Response	10 Hz ~ 20kHz
	Signal-to-Noise Ratio	75 dB (weighted)
Optical Performance	<b>Multi-mode</b>	
	Output Power	-12dBm (typical)
	Receiver Sensitivity	-19dBm (typical)
	Wavelength	1310/1310nm
	Connector	ST
	<b>Single-mode</b>	
	Output Power	-5dBm (typical)
	Receiver Sensitivity	-22dBm (typical)
	Wavelength	1310/1550nm
	Connector	FC
Data Performance	Data Rate	DC to 115.2kbps
	Bit Error Rate	<10 <sup>-9</sup>
LED Indicators	Power On	Red
	Optical Link Loss	Red
	Video Input/Output Presence	Green
	Audio Input/Output Presence	Green
	Data 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	5.7W
	Card Weight	1.27lbs. (0.58kg)
	Module Weight	2.33lbs. (1.06kg)
	Mean Time Between Failures	>100,000 Hrs
Certifications	FCC: Part 15 Subpart B (Certificate No.: BCT09HC-821E)	
	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 (Certificate No.: BCT09HC-820E)	
	ISO 9001:2008	
Compliance	UL, cUL	