

N3571 & N3771 Series

Bi-directional RS-232 and Multi-protocol DIP Selectable Data



Features

- Surface mount technology
- On-panel DIP switch selection of RS-422, RS-485 (2 or 4 wires), Manchester/Biphase
- On-panel DIP activation of 120 Ohm termination resistor
- 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 N3571 and N3771 series provides the ability to transmit and receive one RS-232 and one DIP selectable data (RS-422, RS-485, Manchester or Biphase) over one or two fibers.

Modular in design, the N3571 and N3771 series can be rack-mounted or used as stand-alone module. Rack mounting requires the N3910 series subrack chassis. Stand-alone module used the N3910-1S and can be placed on a desktop or mounted to a wall.

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Ordering Information

N3571XA-1D1B-M	FO MM TRX, 1D IO +1 RS-232, Module, 12VDC/24VAC
N3571XA-1D1B-R	FO MM TRX, 1D IO +1 RS-232, Card, 1-Slot
N3571XB-1D1B-M	FO MM TRX, 1D IO +1 RS-232, Module, 12VDC/24VAC
N3571XB-1D1B-R	FO MM TRX, 1D IO +1 RS-232, Card, 1-Slot
N3771XA-1D1B-M	FO SM TRX, 1D IO+1 RS-232, Module, 12VDC/24VAC
N3771XA-1D1B-R	FO SM TRX, 1D IO+1 RS-232, Card, 1-Slot
N3771XB-1D1B-M	FO SM TRX, 1D IO+1 RS-232, Module, 12VDC/24VAC
N3771XB-1D1B-R	FO SM TRX, 1D IO+1 RS-232, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Multi-mode	12	1310/1310	4.4
	20	1310/1550	25
Single-mode	*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 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

Optical Performance	Multi-mode	
	Output Power	-15dBm (typical)
	Receiver Sensitivity	-27dBm (typical)
	Wavelength	1310/1310nm
	Connector	ST
	Single-mode	
	Output Power	-10dBm (typical)
	Receiver Sensitivity	-30dBm (typical)
	Wavelength	1310/1550nm
	Connector	FC
Data Performance	Data Rate	DC to 115.2kbps
	Bit Error Rate	<10 ⁻⁹
LED Indicators	Power On	Red
	Optical Link Loss	Red
	Data Input/Output	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 6.57" (20mm x 129mm x 167mm)
	Module Dimensions (W xH x D)	0.94" x 6.22" x 7.76" (24mm x 158mm x 197mm)
	Power Consumption	1.9W
	Card Weight	0.82lbs. (0.37kg)
	Module Weight	1.57lbs. (0.71kg)
	Mean Time Between Failures	>100,000 Hrs
Certifications	N3571	FCC: Part 15 Subpart B, Class A (Certificate No.: RSZ07070303)
		CE/EMC: EN 55022, EN 55024 (Certificate No.: RSZ07070303-1, RSZ07070303-2)
	N3771	FCC: Part 15 Subpart B, Class A (Certificate No.: RSZ08041602)
		CE/EMC: EN 55022, EN 55024 (Certificate No.: RSZ08041602-1, RSZ08041602-2)
	ISO 9001:2008	