

# N3784 Series

## 10/100M Auto Sensing Ethernet

**Infinova**<sup>®</sup>  
The Integrator's Manufacturer



Ethernet<>

- **Data rates 10/100 Mbps auto sensing**
- **Communication - Selectable Full / Half Duplex**
- **Interface Auto MDI / MDI-X**
- **Non-blocking wire-speed reception and transmission, transmission without head-of-line blocking**
- **Support IEEE 802.3/802.3U auto-negotiation**
- **Support IEEE 802.3x full-duplex flow control and back-pressure half-duplex flow control**
- **Support feedback and diagnosis functions**
- **Detect the VLAN ARP for data packet**
- **Detection and correction of port polarity at the physical layer**
- **Compact structure for easy installation**
- **Hot swapping design**
- **With status indication for power, Ethernet and optical link**

N3784 series provides the ability to transmit and receive up to 4 channels, 4 ports, 10/100Mbps auto sensing Ethernet signal over one fiber.

Modular in design, N3784 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 the N3910-1S and can be placed on a desktop or mounted to a wall.

## Technical specifications

### Ethernet

IEEE802.3 compliant

Data Rate	10/100Mbps
Ports	RJ-45 connector, 4 ports, shielded

### Optical Performance

Fiber Type	Single-mode
Output Power	-10dBm (typical)
Receiver Sensitivity	-30dBm (typical)
Wavelength	1310/1550 nm
Connector	FC

### LED Indicators

Power On	Red
Optical Link	Red
Ethernet Signal Active	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 x H x D)	0.79" x 5.08" x 6.57" (20mm x 129mm x 167mm)
Module Dimensions (W x H x D)	0.94" x 6.22" x 7.76" (24mm x 158mm x 197mm)
Power Consumption	3.0W
Card Weight	0.84lbs. (0.38kg)
Module Weight	1.59lbs. (0.72kg)
Mean Time Between Failures	>100,000 Hrs

### Certifications and Approval

Product Certifications	FCC <sup>1</sup> , CE/EMC <sup>2</sup> : EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, UL, cUL, ISO 9001:2008
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Certificate No.: <sup>1</sup> BCT09HC-819E; <sup>2</sup> BCT09HC-818E

## Ordering information

N3784XA-4FE-M	FO SM Ethernet 4-Port Transceiver 10/100 BASE-T, Module, 12VDC/24VAC
N3784XA-4FE-R	FO SM Ethernet 4-Port Transceiver 10/100 BASE-T, Card, 1-Slot
N3784XB-4FE-M	FO SM Ethernet 4-Port Transceiver 10/100 BASE-T, Module, 12VDC/24VAC
N3784XB-4FE-R	FO SM Ethernet 4-Port Transceiver 10/100 BASE-T, Card, 1-Slot

Fiber Type	Optical Budget (dB)	Wavelength (nm)	Range (km)
Single-mode	20	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 0.35dB/km @ 1310nm and 0.25dB/km @ 1550nm on SM fiber, and include a 3dB safety factor

## 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

## System diagram

