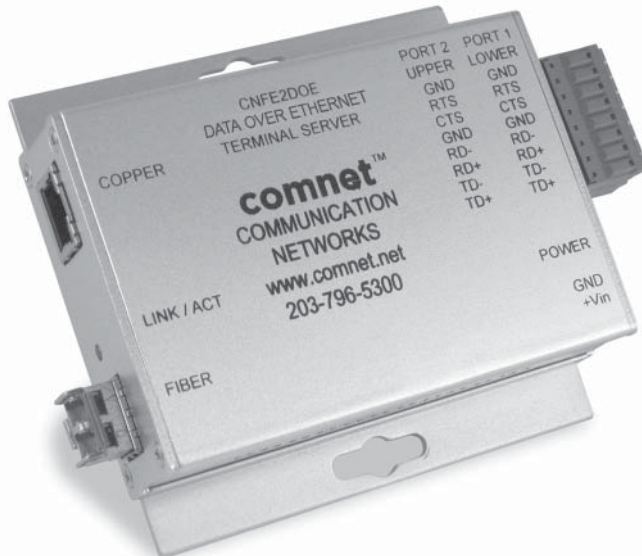


**RS232/422/485 (2w/4w)  
 Data over Ethernet  
 (terminal server)**



**Description**

The ComNet™ CNFE2DOE terminal server supports bi-directional data transmission over 2 optical fibers. The server is universally compatible with RS232, RS422, and 2-wire and 4-wire RS485 and serial data protocols. All configurations are done through its web server. The CNFE2DOE has two serial ports which can be configured by communicating from one port to another through the network. Distances depend on which SFP (Small Form Pluggable) module is used. The RJ45 Ethernet connector is included and is automatically disabled if the optical interface is used.

Open source com0com TCP/IP protocol is supported for any customer PC applications to communicate with terminal servers over the Ethernet. The software utility allows customers to search for the terminal servers installed on the same subnet, and create virtual com ports for each serial port on these servers. Individual serial ports running in client mode can be connected to a different serial port on a different terminal server running in server mode.

**Applications**

- Access Control Systems
- Building Automation and Environmental Control Systems
- Computer/Data Equipment
- Fire and Alarm Systems
- Traffic Signal Control Equipment

**Features**

- Environmentally Hardened -40° to +75°C
- One or two RS232/422/485 selectable serial ports
- NTCIP compatible
- Easy configuration through web interface (HTTP)
- Saved to a web server based configuration
- Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Port control and management supported by open source com0com and com2TCP
- Power and Port status LED indicators
- Automatic resettable solid-state current limiters
- Lifetime Warranty

PART NUMBER	DESCRIPTION
CNFE2DOE	Data Terminal Server

# CNFE2DOE

## specifications

RS232/422/485 (2w/4w)  
Data over Ethernet (terminal server)

### DATA

Data Interface: UART, RS232/RS422/RS485 (2W/4W),  
RS232 Hardware Handshaking

Data Rate: 2400, 9600, 19200, 57600, 115200 Kbps

### ETHERNET

10/100TX, 100FX

### MANAGEMENT

HTTP, Auto-Discovery Tool

### NETWORK PROTOCOLS SUPPORTED

TCP/IP, UDP, HTTP, DHCP, ARP, UPNP,  
Telnet RFC2217

### OPERATING SYSTEMS SUPPORTED

Windows® XP®, Windows® Server® 2003,  
Windows® Server® 2008, Windows® Vista®

### CABLE

CAT5(e)/6

### FIBER CONNECTORS<sup>1</sup>

Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules

### CONNECTORS

Optical: LC

Copper: RJ45

Data: Terminal Block

### LED INDICATORS

- Power

- Link/Act

### ELECTRICAL & MECHANICAL

Power: 9-12 VDC @ 350 mA

Surface Mount: Automatic Resettable

Current Protection: Solid-State Current Limiters

Circuit Board: Meets IPC Standard

Size (in./cm) (LxWxH): 4.08 x 3.74 x 1.1 in.,  
(10.36 x 9.5 x 2.8 cm)

Shipping Weight: <1 lb./0.45 kg

### ENVIRONMENTAL

MTBF: >100,000 hours

Operating Temp: -40° C to +75° C

Storage Temp: -40° C to +85° C

Relative Humidity: 0% to 95% (non-condensing)†

<sup>1</sup>Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652

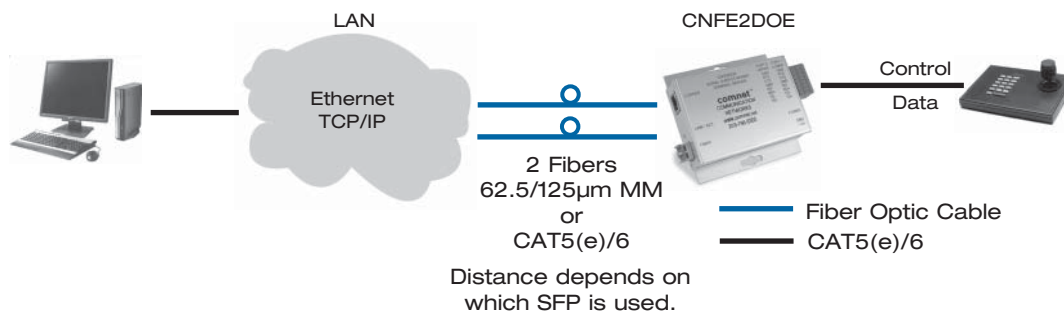
† May be extended to condensation conditions

#### AGENCY COMPLIANCE



PART NUMBER	DESCRIPTION	DISTANCE**
CNFE2DOE	2 Port 10/100 Mbps Terminal Server	See SFP Modules data sheet for optional distances, fiber type and connector type.
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)	
Options	Add suffix 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory)	

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.



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