



The ComNet™ CNFE2DOE2 allows any combination of two RS-232, RS-422, or 2 or 4-wire RS-485 serial data circuits to be inserted onto any 10/100 Mbps Ethernet-based network. The CNFE2DOE2 includes two serial data input/output ports, and two Ethernet ports; one accepting an SFP (Small Form Factor Pluggable), and the other an RJ-45. It may be used as a protocol converter (serial data to Ethernet) or as a media converter, for converting copper transmission media to fiber. A remote user and a local user can access at the same time local serial data devices connected to the serial data ports. A software utility feature allows the user to locate other CNFE2DOE2 terminal server devices installed within the same subnet, and to create virtual communications ports for each serial port on the device. The use of these two utilities enables communications through an Ethernet network to the CNFE2DOE2, and provides control of the remote hardware, as if it were connected directly to the PC COM port.

## FEATURES

- › Environmentally Hardened -40° to +75°C
- › Two RS232/422/485 selectable serial ports
- › NTCIP compatible
- › Basic flow control/handshaking (Request-to-Send & Clear-to-Send) is included, when this device is used with RS232-compatible equipment requiring this functionality.
- › The two serial ports may be configured by the user for communicating from one port to the other through either the user's network, or via a PC.
- › Serial data appearing on either of the two serial data ports is converted to Ethernet, and transmitted to both the SFP and RJ-45 ports, permitting the unit to be simultaneously used as a media converter and a terminal server.
- › Easy configuration through web interface (HTTP)
- › Port control and management supported by open source com0com and com2TCP
- › By selecting the appropriate ComNet SFP, a copper or optical interface may be used to achieve the desired optical transmission distance, using one fiber with WDM, or two separate multimode or single mode fibers.
- › 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 protection from power surges and other voltage transient events.
- › Packaged in the ComNet "middle-sized" housing, the CNFE2DOE2 is ideal for those installations where space may be limited, and it may be DIN-rail mounted by the addition of the DINBKT1 Adaptor Plate.
- › Power and Port status LED indicators
- › Automatic resettable solid-state current limiters
- › Lifetime Warranty

## APPLICATIONS

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

## SPECIFICATIONS

## Data

Data Interface	UART, RS232/RS422/RS485, RS232 Hardware Handshaking, RS485 2-wire/4-wire
Data Rate	2400, 9600, 19200, 38400, 57600, 115200 bps

## Ethernet

10/100TX, 100FX

## Management

HTTP, Auto-Discovery Tool

## Network Protocols

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

## Supported

Telnet RFC2217

## Operating Systems Supported

Windows® XP®, Windows® Server® 2003, Windows® Server® 2008, Windows® Vista®, Windows® 7

## 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	SFP Dependent
Copper	RJ-45
Data	RJ-45

## LED Indicators:

- Power - Ethernet - Serial Data

## Power

Operating Voltage Range	9 to 24 VDC
Power Consumption	9W max

## Electrical &amp; Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	4.08 × 3.74 × 1.1 in (10.36 × 9.5 × 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>2</sup>

[1] Multimode fiber must meet or exceed fiber standard ITU-T G.651.  
Single mode fiber must meet or exceed fiber standard ITU-T G.652  
[2] May be extended to humidity with condensation conditions

## AGENCY COMPLIANCE



MADE IN THE  
**USA**

## ORDERING INFORMATION

## Part Number Description

CNFE2DOE2 2 Port 10/100 Mbps Terminal Server

Included Accessories DC Plug-in Power Supply, 90-264 VAC, 50-60 Hz (Included)

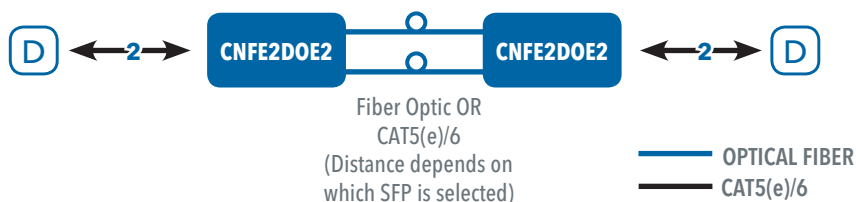
Options RJ-45 to Terminal Block Cable

Add suffix 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory)

DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT1)

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

## TYPICAL APPLICATION



Low Power Consumption