



2070-6E Ethernet Network Modem for 2070 Controllers

Applications

The 2070-6E Ethernet Modem facilitates the exchange of data related to traffic signal control between a 2070 Controller and various components in the traffic management system. The 2070 Controller, a widely utilized type of traffic signal controller overseeing traffic light operations, relies on modems like the 2070-6E for seamless communication.

The 2070-6E Ethernet Modem assumes a pivotal role in ensuring smooth communication across traffic signal controllers and the broader traffic management network. This harmonious communication is essential to maintain the smooth and safe flow of traffic. The 2070 Controller depends on modems like the 2070-6E to transmit and receive crucial data, encompassing real-time traffic conditions, pedestrian crossings, signal timing adjustments, and other pertinent information to optimize traffic signal functionality.

Features

- Single board Ethernet modem
- Can be set up to work in most networks
- Easy installation, plugs into 2070 Controller

General Description

The 2070-6E is a single board modem that provides an interface between a 2070 controller and an Ethernet network running at either 10baseT or 100baseT.

The 2070-6E is designed to plug into a standard traffic controller. It can be configured to fit the requirements of the system with its many modes of operation.

With its built in web browser configuration program or its built in serial accessed configuration program, the 2070-6E can be set up to work in most networks.

Front panel indicators show the status of the RS232 interface and the status of the network interface.

The front panel COM 2 DB9 connector can be used to interface to another modem or it can be used as a configuration port.

Configuration switches are used to quickly change hardware functionality.



General Characteristics

- PCB Dimensions: 5.69" x 8.375" x 0.065" (144.5mm x 212.7mm x 1.65mm)
- Power Requirements: +5vdc \pm 5%, 1A
- Temperature: -34.6°F to +168.8°F (-37°C to +76°C)
- Humidity 95% non-condensing
- RS232 Interface:
 - Data Rates: 300 to 115,000 bps
 - Characters: 7 or 8 data bits
 - Parity: Odd, even, none
 - Stop bits: 1 or 2
 - Control Signals: RTS, CTS, DCD
 - Flow Control: XON/XOFF, RTS/CTS
- Network Interface:
 - Interface: Ethernet 10Base-T or 100Base-TX (Auto-Negotiating)
 - Connector: RJ45
 - TCP/IP, UDP/IP, ARP, SNMP, TFTP, Telnet, DHCP, BOOTP, HTTP and AutoIP
 - Link & activity indicator - Full/half duplex
 - SNMP, Telnet, serial, internal Web server, and Microsoft Windows®-based Terminal Emulation utility for configuration
 - Password protection
- Operational Modes:
 - NORMAL: SP1 TO LAN, SP2 TO COM 2 DTE
 - LOCAL: SP1 TO COM 2 DCE, SP2 muted
 - ECHO: SP1 TO LAN and COM 2 DCE, SP2 muted
 - LAN MASTER: LAN TO SP1 and COM 2 DTE, SP2 muted