



2070

ATC 2070E Controller

World-Class Advanced Transportation Controller (ATC) Technology

Econolite's standards-based Safetran ATC 2070 series of controllers are designed to meet the widest variety of Advanced Transportation Controller (ATC) specifications. This design enables the ATC 2070E to be easily configured to fit Caltrans 2070, 170, 170E, and NEMA TS1, TS2 Type-1 and Type-2 applications.

The ATC 2070E hardware meets or exceeds industry standard traffic controller specifications, and the software base is supported through open architecture and a standard OS9 multitasking operating system. This ensures ease of programming and operation to help meet virtually any Intelligent Transportation System (ITS) application in a single controller platform.

Helping to improve usability, the ATC 2070 series of traffic signal controllers represent the intelligent components of a signalized intersection. Safetran ATC 2070 controllers are designed to increase safety and enhance traffic signal operations.



Key Features

- Open architecture traffic controller design
- OS9 real-time operating system
- 68360 CPU with QUICC engine
- Modular design can be tailored to customer needs
- Meets requirements of Caltrans TEES 2020 specification and ATC 5202 standard
- Supports multiple software applications

Module Options

The Model ATC 2070E has flexible I/O module options to customize to customers' specific needs.

Options include:

- 2070-2E+ field I/O for Caltrans 33X or ATC cabinets
- 2070-2N field I/O for NEMA TS2 Type-1 cabinets
- 2070-2B+ and 2070-8 NEMA interface (A,B,C,D connectors) for NEMA TS1 or TS2 Type-2 cabinets

Single Board Processor Module includes:

- MC68EN360, 25MHz processor
- 32MB DRAM
- 16MB FLASH
- 1MB "Super Cap" backed SRAM
- OS9 real-time multitasking operating system

Specifications	ATC 2070E
Dimensions	Model 2070E: 19 in L x 10.25 in D x 7 in H NEMA interface module: 17 in. L x 10.25 in. D x 4 in. H
Power	115 VAC, 60 Hz, 25-120 W
Temperature	34.6°F to +165°F (-37°C to +74°C)

Hardware Description

- Supports all software applications that are designed for OS9 based Model 2070 controllers
- Serial motherboard provides the communications paths between all modules
- Integrated Ethernet switch with one port connected to the CPU, two ports routed to the CPU faceplate and one port routed to the serial motherboard
- Datakey receptacle with 3V and 5V key support
- Flexible communications module options include Serial (2070-7A) and FSK Modem (2070-6A, 2070-6B)
- Independent, self-contained power supply
- Optical isolation and transient protection devices on Parallel I/O and communications ports enhance protection from lightning and surges
- RTC and SRAM backup power supplied by capacitors
- Flexible cabinet I/O module options supporting Caltrans and NEMA applications
- 8-line by 40-character Liquid Crystal Display (LCD) with LED backlight
- All peripheral microcontrollers have in-circuit programming capability
- Rugged aluminum housing