Model ATC 2070E Controller

▹ ▹The 2070/170 line of Safetran controllers represents some of the most widely used and trusted in the transportation industry.

About the 2070 E

The intelligence behind the signalized intersection is the traffic signal controller. Combined with the traffic cabinet, the controller manages traffic flow and ensures safety for all roadway users.

For more than three decades, Safetran (an Econolite Group company) has provided industry leading innovation and service by maintaining a close alignment with its customers. Safetran's customer focus and employee experience in providing traffic management solutions for New York Department of Transportation (NYDOT), California Department of Transportation (CalTrans), Federal Highway Administration (FWHA), and Transportation Electrical Equipment Specifications (TEES) projects and standards is unequalled in the industry.

As a result, Safetran provides an ideal combination of flexibility of open architecture hardware with the power and performance of 2070/170 controller software packages.

At A Glance

- Open architecture design:
  - Standard chassis and module dimensions and electrical interfaces.
  - OS-9 Real-Time multi-tasking operating system
  - Motorola MC68EN360 Microprocessor, 25 MHz
  - Meets Caltrans TEES 2009 (errata 1) specifications

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Special Features

- Supports ASC/2070, ASC/3-2070, or Oasis software, or any pre-qualified Model 2070 specified software
- Serial motherboard provides the communications paths between all modules.
- Single board processor module includes:
  - *MC68EN360, 25MHz processor*
  - *32MB Pseudo Static Ram (DRAM)*
  - *16MB FLASH*
  - *1MB "supercap" backed SRAM*
- Manageable Ethernet switch with one port connected to the CPU, two ports routed to the front panel and one port routed to the serial motherboard.
- Datakey receptacle with 3V and 5V key support.
- Flexible communications module options include:
  - *Asynchronous*
  - *Synchronous*
  - *Hardwire (FSK)*
  - *Fiber-optic communications option*
- Independent, self-contained power supply
- Optical isolation and transient protection devices on PIO and communications ports enhances protection from lightning and surges
- Backup power supplied by capacitors – no batteries
- TEES and NEMA compliant parallel I/O port options
- 8 line x 40 char/line Liquid-Crystal Display (LCD) with LED backlight
- All peripheral microcontrollers have in-circuit programming capability
- All aluminum housing compatible with Type 170 chassis
  - *Compatible with 170 or NEMA cabinets*
  - *Interchangeable with NEMA TS1 & TS2 controllers*

Basic Specifications

- Temperature
  - -34.6°F to +165°F (-37°C to +74°C)
- Power
  - 115 VAC, 60 Hz, 25-120 W
- Dimensions
  - Model 2070E only: 19 in. L x 10.25 in. D x 7 in. H (483 mm L x 260 mm D x 177 mm H)
  - NEMA interface module only: 17 in. L x 10.25 in. D x 4 in. H (432 mm L x 260 mm D x 101 mm H)
- The Model ATC2070E has a significant number of module options to custom tailor to customer-specific needs. A few of the options include:
  - A 2070-2E TEES 2009 field I/O for use in 170 cabinets
  - A 2070-2N field I/O to provide for TS 2 type 1 operation
  - A 2070-2B + 2070-8 NEMA INTERFACE (A,B,C,D CONN) for TS1 or TS2 type 2 operation

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