

# Model ATC 2070C Controller



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

## About the 2070 C

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 (FHWA), 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 - Linux Real-Time multi-tasking operating system and ATC compliant Board Support Package (BSP)
- ▶ PowerPC with QUICC engine
- ▶ Meets Caltrans TEES 2009 (errata 1) specifications
- ▶ ATC 2070C combines the flexibility of open architecture hardware with the power and performance of our ASC/3-LX 2070 software package

**Safetran**



## Description

The new Safetran model ATC 2070C Controller has been completely redesigned to meet the Caltrans TEES 2009 specification. The new design allows the ATC 2070C to be easily configured to fit all 2070, 170, 170E, and NEMA TS1 and TS2 Type-1 and Type-2 applications. The controller meets or exceeds all TEES and NEMA functional and environmental requirements for traffic signal hardware. This controller, which includes the Linux multi-tasking operating system, provides a true, industry standard, open architecture platform.

The ATC 2070C may be configured with Econolite's highly capable ASC/3-LX-2070 software package, or any industry-available 2070 software meeting current Caltrans TEES 2009 (errata 1) specifications that have been configured to operate on Econolite's 2070-1C or 2070-1CLS CPUs.

The base model ATC 2070C unit employs a standard chassis and serial motherboard along with a 2070-4A power supply and 2070-3B front panel which features a brilliant 8 line x 40 character LCD display module. The unit also features the new 2070-1C CPU module that includes larger program memory space and additional Ethernet capability. The unit can be configured with either the new 2070-2E Field I/O module, for interfacing with standard 170 cabinets, or the 2070-2N for connection to a NEMA cabinet.

NEMA TS x compatibility is achieved by attaching a 2070-8 NEMA Interface Module chassis. The NEMA Interface Module will support all TS1 and TS2 Type-2 applications. Communications modules are available to support most media used by the traffic industry (serial/FSK/Ethernet) and standards (AB3418/NTCIP/ proprietary).

## Special Features

- Supports ASC/3-LX 2070 Linux software, or any pre-qualified 2070-1C CPU specified software
- Serial motherboard provides the communications paths between all modules.
- ATC Engine Board
- Host Board
- Flexible communications module options include:
  - *Asynchronous*
  - *Synchronous*
  - *Hardwire (FSK)*
  - *Fiber-optic communications option*
- Independant, self-contained power supply
- Operating system
- Easy software upgrade can be done via USB memory stick, or can be done via Windows Software over Ethernet

## Basic Specifications

- ▶ **Temperature**
  - ⦿ -34.6°F to +165°F (-37°C to +74°C)
- ▶ **Power**
  - ⦿ 115 VAC, 60 Hz, 25-120 W
- ▶ **Dimensions**
  - ⦿ **Model 2070C 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 ATC2070C 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**

