

ASC/3 RackMount Actuated Controllers



The ASC/3 RackMount (RM) allows a lower cost of ownership and expanded adaptability for developing traffic management strategies.

About the ASC/3 RackMount

The ASC/3 RM is the latest in a series of Advanced System Controllers, now offered by Safetran. It builds on the proven software, design flexibility, and unique feature set of the popular ASC/3 family of controllers.

The ASC/3 RM provides an updated rack mount hardware design that allows it to serve as the traffic control platform for present and future traffic management environments. This is accomplished through Caltrans C1 platform (33x type cabinet compatibility) and is NTCIP compliant.

The ASC/3 RM was designed using the latest technology which offers the user a controller that is more reliable, easier to maintain, and interchangeable with the Caltrans C1 platform (170/2070) type, while continuing to offer a competitive price. In addition, the design, manufacturing, and testing of the ASC/3 RM uses processes controlled by the latest ISO quality standards.

At A Glance

- State-of-the-art manufacturing and design for reliability, maintainability, and cost-effectiveness
- Windows-based remote user interface (optional)
- Advanced controller, coordinator, and preemptor features
- Ethernet support for 100 Base T-networks
- 16 x 40 LCD display with adjustable contrast

Flash Memory & LCD

All firmware in the ASC/3 RM is stored in flash memory. This allows for quick and easy software updates in the field without changing hardware. The ASC/3 RM firmware is easily updated in the background while the intersection remains in operation. Once updated, the controller only needs to be power-cycled to allow the new firmware to take control. The majority of the electronic components of the ASC/3 RM are contained on one easy-to-replace module.

The ASC/3 RM uses the largest Liquid Crystal Display (LCD) module (16 lines x 40 characters) in the industry to simplify the user interface. This display provides improved viewing in all lighting conditions. In addition, a display heater enhances the display performance in temperatures below 0° F (-18° C).

ASC/3 RM: C1 Operation

The ASC/3 RM provides compatibility to all standard Caltrans 332/336 configurations, but can also be configured for any Caltrans 33x (ie. 303, 330, etc.) controller cabinets using the ASC/3 I/O Configurator (Mapper Utility). The Caltrans specified C11 connector is also mapped to provide

8 phase red outputs and 20 vehicle detector inputs. The ASC/3 RM works with any standard 2010 Conflict Monitor.

ASC/3 RM: I/O Interface Operation

The ASC/3 RM also provides an I/O mode for controlling all inputs and outputs over a high-speed SDLC Serial Bus (Port 1) with digital addressing that simplifies cabinet wiring. This bus also interfaces directly to a TS2 Malfunction Management Unit (MMU) for enhanced intersection monitoring.

Features

- Control features
- Coordinator features
- Preemptor features
- Time Base features
- Status display feature
- Detector features
- Logging features
- Telemetry features

Controller Models

- The ASC/3 RM supports the Caltrans C1/C11 cabinet interface and Synchronous Data Link Communications (SDLC) Port 1 cabinet interface with a TS2 type 1 MS A connector. The ASC/3 RM comes standard with an Ethernet port and Data Key socket (keys optional). An optional card can be provided for twisted-pair copper (FSK) or serial (RS232) system interconnect.

