

# 2070L

## Traffic Controllers

### Advanced Transportation Controllers

#### Overview

The 2070 Lite controller from Peek Traffic Corporation is a configurable field processor and communications system for traffic management applications, such as adaptive intersection control, field master, integrated corridor management and other applications requiring field processing.

The 2070 Lite retrofits into industry standard cabinets. It's design is based upon Caltrans and NY DOT 170 traffic cabinet standards.



*Peek 2070L Controller*

#### Open Systems Architecture

##### Hardware

- Caltrans/NY DOT 170 cabinet digital interfaces (2070)
- 32-Bit microprocessor
- 8 Lines by 40 characters LCD display with backlight
- Modular 115-Watt power supply (with surge protection)
- Flexible communications options (e.g., serial twisted pair 202 modem, fiber, etc.)

##### Software

- Supports OS-9 and other real-time operating systems
- Supports third-party software available for intersection control, communications, and other applications Standards
- Designed based on industry standard traffic controller specifications

#### Features & Benefits

- 170 or NEMA cabinet compatibility
- Open architecture
- Flexible system implementation
- Powerful and expandable
- Designed to industry standard traffic controller specifications

## Rugged Environmental Specifications

- Operating range of -40° to +85°C (-40° to +185°F) for system modules
- High-reliability, low-wattage design
- Designed to limit EMI emissions

## Communications Module

The 2070 Lite also has two general purpose serial channels that can be configured for EIA-232, -422, -485, and other electrical interfaces.

The standard electrical interface is configured for EIA-232. Contact Peek Traffic Corporation for additional requirements.

## Software

The 2070 includes a license for OS-9, an industry standard real-time operating system that may or may not be used in the end application. Application software is not an integral part of the 2070 controllers. Instead, application software is available from an extensive list of third-party software company suppliers, integrators, and DOTs.

## Maintenance & Reliability

The 2070 consist of replaceable modules, so the units are easy to maintain. Software upgrades are performed by serial downloads, eliminating the need to handle electronic components, which is one of the primary causes of system failures. Each module within the controllers is built using modern, low-wattage, high-quality components that meet or exceed IPC quality standards.

## Specifications

Property	Description
<b>System Level</b>	
Temperature	Ambient Operating -34° to +74°C Storage -45° to +85°C
Relative humidity	95% max., noncondensing (4.4-43.3°C)
Strength, shock	Max. 10G in orthogonal axis
Strength, vibration	5-30 Hz up to 0.5G in orthogonal axis
Dimensions	10.5" H x 17" W x 14" D
<b>Front Panel</b>	
Display	8 lines by 40 characters
Keypads	4 x 4 Hex and 3 x 4
<b>Power Supply</b>	
Power	115 watts
Voltage	89-135 VAC applied line range
Frequency, operating	57-63 Hz
Outputs	+5 VDC @ 10A, +12 VDC @ 0.5A, -12 VDC @ 0.5A, +12 VDC (isolated) at 1A



2070L Controller (rear view)



A Signal Group Company

Peek Traffic Corporation

2906 Corporate Way, Palmetto, FL 34221

Phone: (941) 845-1200 • Fax: (941) 365-0837

