



2070 ATC Controller Series

Siemens Advanced Transportation Controllers

Description

The 2070L ATC is a multi application controller capable of running multiple on-street applications from a single unit. With one controller managing multiple applications the 2070L ATC reduces the amount of hardware required at on street locations. The 2070L ATC meets ITE Next Generation ATC standards and exceeds NEMA/AASHTO/ITE Rev. 5.2b Standard for Advanced Transportation Controller (with next generation engine board). With a Linux operating system the 2070L ATC provides more options for third party development. Preloaded with the SafeSuite software package, as well as NextPhase and SEPAC local intersection controller software the 2070L ATC is a comprehensive intersection control and monitoring system.

The 2070L ATC can run multiple concurrent transportation software applications, offering true multitasking traffic control. The 2070L ATC offers two (2) separate 10/100 Base T-Ethernet links. Each with a 2-port hub which connects to an IP-enabled intersection device and the central network through back-of-cabinet wiring. Able to

access both on a laptop or PDA through front-of-network connections, all without unplugging anything.

Features

The 2070L ATC meets ITE Next-Generation ATC Standard with increased support for IP enabled intersection technology. With a 266MHZ processor on the engine board, the 2070L ATC is faster than the 2070 ATC engine board, with a substantial increase to 16MB flash memory and 64 Mb DRAM. It also includes:

- A rack-mounted or shelf design
- Back-of-cabinet wiring and access
- USB 1.1 port on the front of the controller
- Approved by Caltrans - Latest QPL
- Open Architecture insures compatibility with off-the-shelf products
- VME Hardware (VME chassis not included on the "lite" version)
- Standard VME interface modules from multiple vendors
- Standard OS-9™ Operating System
- Standard software modules from multiple sources



Standard outside, power inside

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- Added VME boards and software extensions upgrade system easily
- 2 slots available for choice of dual serial, FSK, and fiber optic, EIA232 or 485 modems
- Multitasking - each 2070ATC unit can control multiple applications
- Multiprocessing - each 2070ATC unit can accommodate multiple CPUs
- High speed serial communications to CPU
- Designed and built for unattended operation in harsh environments
- Built-in 10 Base-T Ethernet with IP address on 2070-1B (2070L models)

Technology

Technology the 2070L ATC meets and exceeds NEMA TS-1 1989 Actuated Controller Unit Standards (Paragraph 3.2.1). The controller runs the SafeSuite software package, NextPhase, SEPAC, and more comprehensive intersection control monitoring system. The platform with multi-application design makes the 2070L ATC ideal for third party application development. The controller is capable of running these multiple applications concurrently providing true multi-tasking control.

The 2070L ATC file system is expandable with on-board Compact Flash card slot, and is interchangeable with other Siemens 2070L ATC controllers, as well as PAC m50 controllers and Siemens Low-Power CBD Cabinets. The

controller uses flash memory to retain all timing and control parameters - no replacement of EPROMs is necessary. With an injection, molded, high impact polycarbonate case the 2070L ATC controller is lighter than other ATC and NEMA controllers.

Operating System Features

- Standard Microware OS-9™ Multi-tasking and DOS-like commands
- Embedded real time kernel
- Sequential character file manager (SCFMAN)
- Sequential protocol file manager (SPFMAN)
- Pipe file manager (PIPEMAN)
- Random block file manager (RBFMAN)
- "C" input/output library
- Embedded Software Utilities: Flash drive, RAM drive, Timer library, Error logger, Validation suite for self-testing, Modem tester



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