

2070LX CONTROLLER

35X/34X/33X/170 STYLE TRAFFIC SIGNAL CONTROLLER

Linux operating system with
64MB SDRAM | 64MB flash memory and
MPC 8248 32-bit processor (750 MIPS)

8 line x 40 character
front panel LCD



2070-3B front panel

Tactile keypads

C50 serial port
(RJ45 or DB9)

OVERVIEW

The 2070LX controller is part of Q-Free's industry-leading ATC-compliant, Linux-based hardware platform.

The chassis meets and exceeds current 2009 TEES and includes an ATC-compliant 2070-1C CPU module.

The 2070LX can be configured for ITS, 2070, 170, 170E, and NEMA TS 1 or TS 2 cabinet I/O configurations and is listed on the Caltrans QPL.

I/O MODULE OPTIONS

- 2070-2A/2E+ field I/O module for parallel interface to 35X/34X/33X cabinets
- 2070-2N includes a field I/O module for serial interface with ITS and NEMA TS 2 type 1 cabinets
- 2070-N includes 2070-N1 extensions for TS 1 & TS 2 type 2 cabinets
- 2070-2B/2C field I/O module for interface to ITS cabinets and other RS-485 peripherals

PLATFORM

- Complies with latest ATC 6.25 and Caltrans 2009 TEES (2070-LC)
- Uses open Linux O/S architecture for hosting various 2070 software applications
- Includes ATC 5401 API as an option
- Uses runtime libraries per ATC 5.2b (ATC 6.25)
- Full supports all required ATC 6.25 software drivers under the latest Linux kernel release v 3.2
- Environmentally hardened (operating ambient temperature from -40°C to +80°C)



2070-1C CPU CARD

2070-1X slot carrier module with front panel support for

- 3.3v DataKey socket
- 4x 10/100 RJ45 Ethernet ports w/activity and speed LEDs
- TEES compliant D type 25 pin C13S port
- Fully qualified to latest Caltrans TEES 2070 specifications
- 1 USB port

Engine board CPU module

- Fully 2070 hardware and software compliant with latest national ITE/NEMA/AASHTO ATC standard
- Motorola (Freescale) MPC8248, 32-bit, 400 MHz, PowerPC Instruction
- 64MB of DRAM (128MB option)
- 1MB SRAM (2MB option)
- 64MB of flash memory
- 7 serial ports (SP1-6, SP8)
- RTC time reference

ADDITIONAL HARDWARE

- Heavy-duty model 2070-4A power supply
- 2070-3B standard 8 line x 40 character LCD display
- RJ45 and DB9 serial connectors