

# 170 SMARTCARD

\*Easily Upgrades Most 170's to the Power of an ATC-2070

The 170 SMARTCARD provides an easy upgrade of most Model 170 controllers to the power of the Advanced Transportation Controller (ATC-2070). Comprising a standards-compliant 2070 ATC Engine Board and a host interface card (developed by Zwiesler Resources, Inc.) for the 170 CPU slot, the 170 SMARTCARD allows the latest 2070-ATC applications to run on most 170 controllers. The Card provides a front mounted Ethernet connection, optional NTCIP capability and full control and interface of the 170's I/O functions through 4 serial ports. Traffic application software is available through Intelight and other ATC software vendors.



## PROCESSING POWER

- 32-bit Motorola processor with 25 MHz clock
- 8 MB DRAM
- Real Time Clock ("battery-backed" calendar/clock)

## FRONT MOUNTED ETHERNET CONNECTION

- 10 Base T Ethernet Controller
- Full-featured TCP/IP network stack

## FIELD COMMUNICATION INTERFACE

- Asynchronous serial interface gives CPU access to 170 I/O ports
- Simplified field I/O message protocol
- 38,400 bps port speed with 1 ms message response time

## APPLICATIONS SOFTWARE OPTIONS

- NTCIP Standards based communications agent
- ASC Traffic Control Applications
- Field Interface messaging protocol software library available

## GENERAL SPECIFICATIONS

### HOST INTERFACE CARD

- Processor: Motorola MC908QB4CPE 8-bit CPU
- Crystal Frequency: 9.830400 MHz
- Memory: 128 Bytes RAM; 4KB Flash
- Inputs: 60 Hz line
- Outputs: Linesync, ACFAIL, Engine Board Reset, 170 I/O Reset, CPU Active LED
- Connectors: Header for SP4 console, SP6 UI and an RJ45 Ethernet connector
- Operating Temp: -40 C to + 75C

### 2070 ATC ENGINE BOARD

- Processor: Motorola MC68EN360 CPU @ 25MHz
- Memory: 8 MB DRAM; 8MB Flash; 1MB SRAM
- I/O: Ethernet, Serial Ports (SP1-6, SP8)
- Power: +5VDC 1.00A max.
- Operating Temp: -40C to +75C
- Firmware: OS-9 Operating System, TEES-compliant platform

