



## 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 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. ***The SMARTCARD is compatible with Trafficware's V76 intersection firmware and ATMS, now transportation management system.***

# Product Features & Specifications

FEATURES	
Processing Power	<ul style="list-style-type: none"> <li>32-bit Motorola processor with 25 MHz clock</li> <li>8 MB DRAM</li> <li>Real Time Clock ("battery-backed" calendar/clock)</li> </ul>
Front Mounted Ethernet Connection	<ul style="list-style-type: none"> <li>10 Base T Ethernet Controller</li> <li>Full-featured TCP/IP network stack</li> </ul>
Field Communication Interface	<ul style="list-style-type: none"> <li>Asynchronous serial interface gives CPU access to 170 I/O ports</li> <li>Simplified field I/O message protocol</li> <li>38,400 bps port speed with 1 ms message response time</li> </ul>
Applications Software Options	<ul style="list-style-type: none"> <li>NTCIP Standards based communications agent</li> <li>ASC Traffic Control Applications</li> <li>Field Interface messaging protocol software library available</li> <li>Compatible with Naztec/Trafficware V76 controller firmware and ATMS.now transportation management system</li> </ul>

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

