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          | - 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  
|                          | - Compatible with Naztec/Trafficware V76 controller firmware and ATMS.now transportation management system  

### 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-compliantplatform  