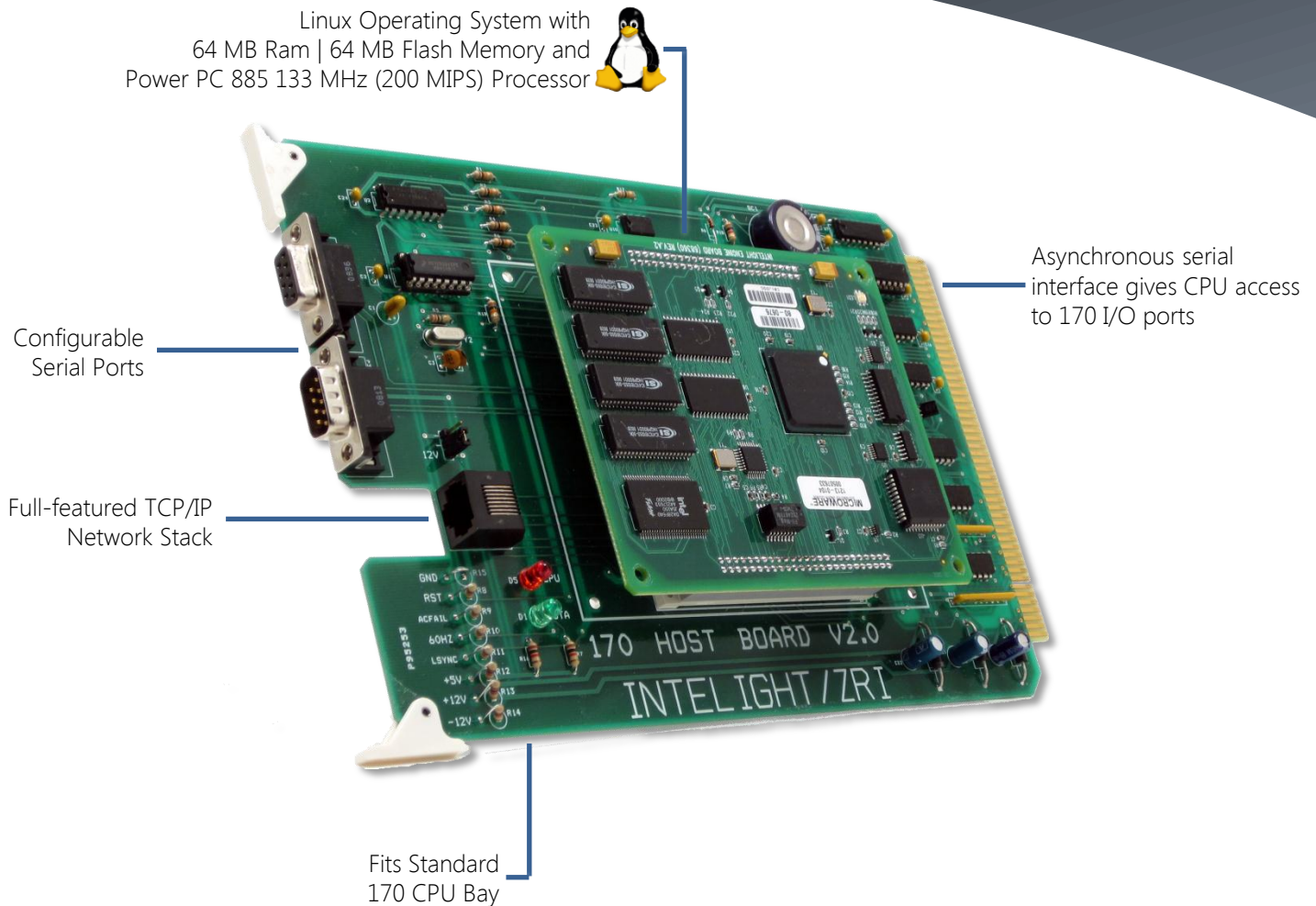


# 170 Smart Card

## 170 Controller CPU Upgrade

### Advanced Transportation Controller (ATC)



## OVERVIEW

Intelight's 170 Smart Card provides an easy, cost effective upgrade path for most Model 170 controllers to the power of the Advanced Transportation Controller (ATC). The 170 Smart Card (developed by Zwiesler Resources, Inc.) host a standards-compliant 2070 ATC Engine Board, interfacing with the 170 CPU slot. The 170 Smart Card allows the latest ATC applications such as Intelight's MaxTime to run on most 170 controllers. Contact Intelight today to see how the 170 Smart Card can help update your existing controller hardware to 21<sup>st</sup> century technology.

## HIGHLIGHTS

- Cost Effective "Upgrade" Solution
- Run ATC Software on most 170 Controllers
- Linux Operating System
- Provides Ethernet Communications
- Capable of running multiple independent applications.
- Compatible with MaxTime Local Controller Software
- NTCIP Standards based communications agent

## STANDARD FEATURES

- Linux Operating System
- Open source U-Boot Loader
- Runtime libraries per ATC5.2b
- Full support for all required ATC 6.0 software drivers under the latest Linux kernel release v 3.0
- Compatible with the very latest Caltrans QPL approved (TEES 2009) 2070E hardware.
- Compatible with legacy 2070's (TEES 2002 to present)
- Capable of running multiple independent applications.
- Board-support tool-chain package with all necessary libraries for 3rd party software development
- Environmentally hardened (Operating ambient temp from -40C to +80 C)

## STANDARD FEATURES

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

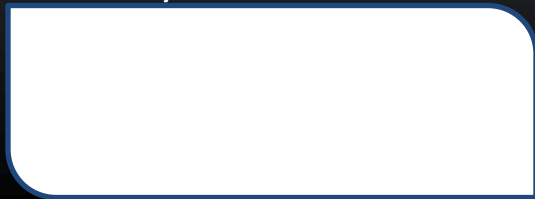
## ROBUST HARDWARE

- Built with current, industry standard technology
- Environmentally hardened (Operating ambient temp from -40C to +80 C)

## 1C ATC ENGINE BOARD

- Engine Board CPU Module
- Fully ATC 6.0 hardware and software compliant to latest national ITE/NEMA/ASSHTO joint ATC standard
- Power PC 885 133 MHz (200 MIPS) Processor
- 64 Megabytes of DRAM and 64 Megabytes of Flash Memory
- 1 Megabyte SRAM

Distributed by:



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