



A flexible, scalable, multi-purpose embedded systems safety platform suitable for SIL-2 to SIL4 Integrity Level.

Ideal applications include:

- ▶ Positive Train Control [PTC]
- ▶ Automatic Train Protection [ATP]
- ▶ IEEE/FRA Event Recorder
- ▶ Brake Assurance
- ▶ Retrofit Control for obsolete vehicle systems and sub systems

Specifications for Safety Platform

Standard Features

Platform: Smart Core Diverse Processing
Size: Compact Size [11"x10"x6"]
Safety Level: SIL2-SIL4
Application: ATS, ATP, PTC, Brake Assurance
APP Ready
Safety IO: S3-CPS-01 Digital Safety Inputs
 6 Analog Safety Inputs [EOSS or REL]
 4 Pulsed TACH:EOS or Reluctance
 10 Safety Outputs
 Ethernet EN50519-1 2010
 Scalable to 2X or Higher

Safety and Durability: Design to EN50126/8/9 Safety Standards
 Design to EN50155 Environmental Standard
 Hi-REL Design
 Grade Compensated Accelerometer

Optional Features

Expandable I/O: Double the safety I/O
 Add multiple serial ports

Vehicle
Comms Platform: Dual WiFi [802.11 b/g/n]
 3G Cellular [HPSU/HSDPA/UMTS]
 GPS [50 Channel Galileo ready]
 Dual GbE Ports

Train
Operator Display: Rugged, Wide Temp Range
 15" Screen, 1024x768 32 bit color
 160 Vertical & 140 Viewing Angle

Expandable I/O: Double the safety I/O
 Add multiple serial ports