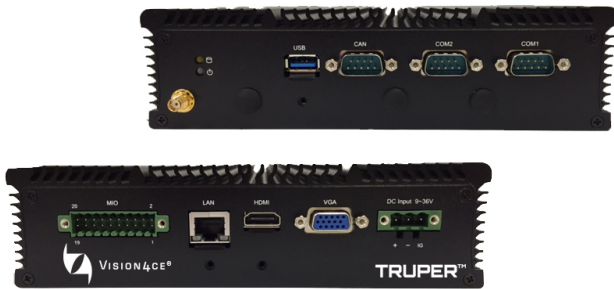# TRUPER® 105

Commercial off-the-shelf (COTS) High-Performance Rugged Computer System

The TRUPER® family offers a range of affordable processing solutions using the most current computing and packaging technology. The TRUPER 105 provides a small compact enclosure suited for vehicle, ship or aircraft application of the latest COTS hardware technology. Within the chassis natural cooling is used to provide efficient transfer from the internal electronics to the enclosure. This ensures heat stress of the components is kept to a minimum. The unit is designed to ensure reliable operation in challenging and high altitude environments where the unit is subjected to shock and vibration.

Component Specifications

Processor
- Intel Atom E3845 1.91 GHz processor

Memory & Storage
- DDR3L SO-DIMM x2, 2GB, Options to 8 GB
- SATA 2.0 x1 for internal 2.5" HDD x1, mSATA x1

Display
- VGA, HDMI

Controller
- Ethernet: Intel i210-IT x2
- Graphic: Intel integrated GMA3650 graphic engine
- Audio: Realtek ALC886 HD codec

I/O
- LAN: GbE RJ45 x 2
- Serial:
    - DB9 Male x3 support RS-232/485 with RI/5V/12V
    - One DB9 optional for CAN Bus J1939 & J1708
- Digital:
    - 4x DI 12V level
    - 4x DO 12V level
    - 2x DI (from MCU) 3.3V Level, 1x relay (2A, 12V/24V)
    - 12VDC power output
- USB: Type A x1 for USB 3.0,Type A x1 for USB 2.0

Power Input
- DC Input: 9~36V for +12V and +24V- vehicle power
- 3-pin terminal block (+, -, ignition)

Hardware Monitor
- Integrated watchdog timer 1~255 level

Environmental
- Operating Temp: -5 to 45°C
- Storage Temp: -20 to 75°C
- Relative Humidity: 5 to 95% (non-condensing)

Certifications
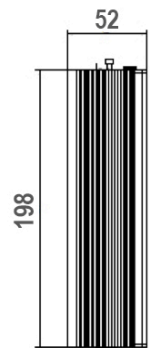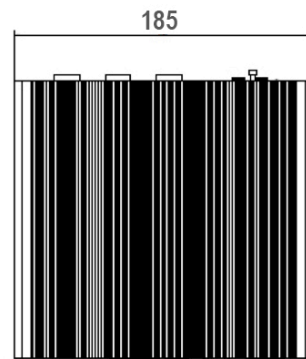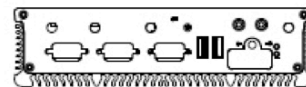- CE, FCC Class A, E13, RoHS

OS Support
- Windows 7/ Embedded; Windows 8 Embedded, Linux kernel 2.6.X or later

Expansion
- 2x Mini-PCIe socket, each w/dual SIM sockets, 1x half-size Mini-PCIe socket for Wi-Fi, 3G, 4G/LTE opt.

Footprint
- Dimensions: 198 x 52 x 185 mm

Ordering Information:
Model: V4/TRUPER/105/101
Contact: US +1.410.384.9181
info@vision4ce.net