TRUPER® 104

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

The TRUPER® family offers the flexibility to change out electronics such as frame grabbers, video processors, extra memory, storage or other communication devices. The TRUPER® chassis provides a customizable enclosure with a removable SSD and 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 air, land and sea platforms where the unit is subjected to shock and vibration as well as extended operating temperature ranges.

Component Specifications

Processors
- CPU: i7-4700EQ, Intel QM87
- GPU: Embedded Intel HD4600

Memory & Storage
- 8 GB up to 16GB (DDR3L SO-DIMM 1333/1600MHz,)
- 2x removable SATA 2.5"storage bay; support Raid 0 & 1

Display
- HDMI x1, DVI-I x1, VGA x1
- VGA+HDMI, VGA+DVI
- Clone, Independent, Extended Display

I/O
- LAN: RJ45 10/100/1000Mbps x2, Controller i217LM & 1x Intel i210AT
- Audio: Mic-in, Line-out
- Serial: RS232/422/485 x 2
- Digital: DB9 Female x1 for DI x4 &DO x4 (TTL, DO Max 100ma) - optional
- USB3.0 x 2, USB 2.0 x 4

Power Input
- +9 to +30 VDC up to 100W
- 1x 2pin terminal block

Hardware Monitor
- Voltage for Vcore/ VcoreG/V+3.3V/ V+5V; Temperature for CPU and System Integrated Watchdog Timer 1~255 second settings

Environmental
- Operating Temp: -10 to +55°C
- Storage Temp: -20° to +70°C
- Relative Humidity: 5% to 95%

Certifications
- CE, FCC Class A

OS Support
Windows Embedded, Win7 Pro, Linux

Environmental Standards[1]
- MIL-STD-810
  - Operational Temp., Method 501, Proc. I/II: -10°C to +55°C, capable of -40°C to +71°C with select processors. Storage Temp., Method 501, Procedure I/II: -30°C to +75°C
  - Humidity, Method 507, Procedure II: 240 hours with humidity kit.
  - Altitude, Method 500: 10,000ft operation, 20,000ft transport.
  - Vibration, Method 514, Procedure I: 1.5 GRMS, 5-500Hz, 75 min/axis
  - Shock, Method 516, Procedures I/V: 20g, 11msec; 3 axes, each direction
- Electromagnetic Compatibility Standards[1] FCC Class A
- Mil-STD-461F, with specific kits for air/ship applications
  - Operating Temp: -20 to +55° C (Hi/Lo Tested)
  - Storage Temp: -40 to +70°C
  - Bootable > 24 hrs @ -20°C

Note 1 - Designed to meet

Expansion
- 1x PCIe 16X expansion slot (30W)
- 1x PCI Expansion in packing (30W)

Options
- PCIe MIL-STD-1553 and ARINC 429
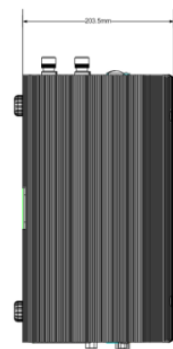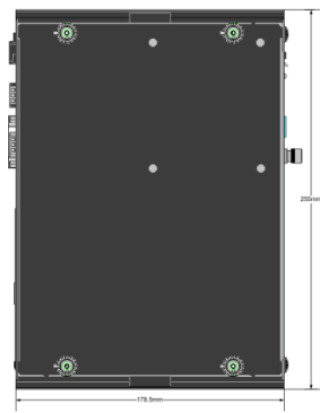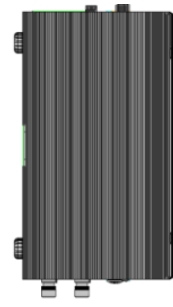- GPGPU processing
- DVR

Ordering Information:
Models: V4/TRUPER/102/104
Contact: US +1.410.384.9181
info@vision4ce.net

Footprint

- Dimensions:
  276.6 x 110 x 195 mm (10.9" x 4.33" x 7.7")
- Weight: 5.7 kg (11lbs)