GRIP Delta

General-purpose Rugged Integrated Processor

Hardware
- Latest generation Intel Core i7 Mobile Processor
- NVIDIA GTX 1050Ti
- 4 – 32GB DDR3 memory
- 60GB – 2TB SATA III solid state hard drive (MLC or SLC)

I/O Connections
- DVI-I, HDMI, or Display Port
- Serial –1 port, RS232 / 422 / 485 capable, DB9
  –1 port, RS232 only, DB9
- USB – 4 USB 2.0 or 3.0 (option) ports
- Ethernet – 2 ports, 10/100/1000Base-T, RJ45

Environmental
- Sealed to IP67
- Operating temperature -20°C to +55°C
- Storage temperature -40°C to +70°C
- Internal shock isolation

Power
- Power – DC 18V to 32V
- Power consumption <120W (CPU/GPU dependent)

Operating Systems
- Microsoft Windows 7 or 10 (32/64 bit)
- Ubuntu or CentOS Linux (32/64 bit)

Mechanical
- Weight 16.3lbs, 7.5Kg
- Dimensions 15.0" x 8.3" x 4.3" (380mm x 210mm x 110mm)

EMC
- EN55022 Class A, EN55024
- Part 15, Class A
- IEC 60533

UK Designed and Manufactured. US and UK Technical Support

GRIP_Delta_DS190817

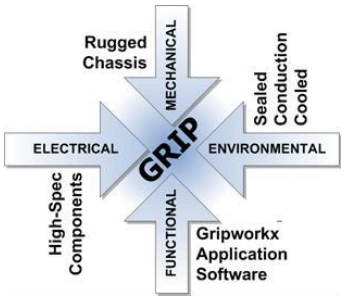
Rugged PC

The GRIP Delta is a true commercial off the shelf (COTS) high performance rugged computer system that combines the latest generation Intel Core i7 mobile processor with the latest NVIDIA CUDA enabled GTX1050Ti (Pascal) GPUs. The GRIP Delta is targeted at applications which require GPU/GPGPU image or signal processing in harsh environments.

The GRIP chassis provides an IP67 sealed enclosure for the internal COTS hardware. Within the chassis a combination of convection and conduction cooling ensures minimal heat stress of the components. Internal shock isolation is used to ensure reliable operation in harsh environments where the unit is subjected to shock and vibration.

If the GRIP Delta is mounted on a sufficiently large bulkhead (or other cold wall) it may be conduction cooled via its base plate, otherwise external forced air cooling with a minimum flow rate of 50 cfm is required. The GRIP External Fan assembly is normally supplied for this purpose.

The GRIP Delta has been installed operationally in ships, aircraft, vehicles, robots, UAVs. Application areas include security, automotive, transportation, oil and gas, nuclear, military and aerospace. The GRIP architecture integrates the four key elements of embedded design:



GRIP Options

Video Capture
The GRIP Delta can be supplied with a wide range of analog and digital video capture interfaces, including
- RGB, PAL/NTSC
- HD-SDI (SMPTE 292) up to 1080p resolution
- DVI, CameraLink, Firewire, GigE Vision, CoaXPress and others

Additional I/O
- Custom front panel configurations
- MIL-DTL-38999 connectors
- MIL-STD-1553 and ARINC 429 interfaces
- Additional Serial, USB, and LAN ports
- GPIO, WiFi, GPS and others

Additional Storage
- Up to 2 additional SSDs, each 2TB maximum
- External storage via front panel SATA connector
- Removable single drive option

Vision4ce Software
The GRIP Delta is fully compatible with
- DART video tracker
- GRIPWorkx
- GRIP-VMS

US: 410.384.9181 EU: +44.118.979.7904 info@vision4ce.net www.vision4ce.net

- GRIP-VMS
- DVR software

US: 410.384.9181 EU: +44.118.979.7904 info@vision4ce.net www.vision4ce.net