

GRIP Alpha



General-purpose Rugged Integrated Processor



Hardware

- 4th or 6th generation Intel Core i7 Mobile Processor
- Intel HD Graphics 4000/5000
- 4 – 16GB DDR3 memory
- 60GB – 1TB SATA III solid state hard drive (SLC or MLC)

I/O Connections

DVI

- Serial –1 port, RS232 / 422 / 485 capable, DB9
- –1 port, RS232 only, DB9
- USB – 4 USB 2.0 (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 10V to 32V
- Power consumption <60W

Operating Systems

- Microsoft Windows© 7/10 Professional/Embedded
- CentOS or Ubuntu 12.04 LTS Linux (32 or 64Bit)

Mechanical

- Weight 13.2lbs, 6.0Kg
- Dimensions 11.8" x 8.3" x 4.3" (300mm x 210mm x 110mm)

EMC

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

Designed and Manufactured in the UK



Rugged PC

The GRIP Alpha is a true commercial off the shelf (COTS) high performance rugged computer system, featuring a 4th or 6th generation Intel Core i7 mobile processor with Intel HD Graphics 4000/5000.

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

Application areas of this technology include security, automotive, transportation, oil and gas, nuclear, military and aerospace sectors.

The GRIP architecture integrates the four key elements of embedded design:



GRIP Options

Video Capture

The GRIP Alpha 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

- Additional SSD, 1TB maximum
- External storage via front panel SATA connector
- Removable drive option

Vision4ce Software

The GRIP Alpha is fully compatible with
DART video tracker
GRIPWorkx
GRIP-VMS
DVR software