GRIP Alpha
Embedded Vision Processor

VISION4CE

GRIP Target Tracker

OpenGL ✓**RoHS** **FC** **CE**

GRIP Alpha

The GRIP Alpha is a true commercial off the shelf (COTS) high performance embedded PC which is targeted at applications that require high-end real-time processing with high resolution imaging sensors in rugged environments within an extended operating temperature range.

The GRIP combines the latest generation Intel Core i7 Mobile Processors and is future proofed to easily and affordably incorporate future processing components.

The GRIP VP provides designed to fit the latest graphic processors and connector technologies to support the continually evolving and improving high resolution sensors. Within the GRIP VP a combination of convection and conduction cooling ensures minimal heat stress of the components.

Application areas of this technology include surveillance, security, transportation, energy, nuclear, military and first responder sectors.

Hardware
- Intel Core i7 - Quad Core Processor , 6MB Cache, Integrated Intel HD 4600 Graphics
- HD-SDI Video Capture module, HD-SDI Video Output module
- 60GB SSD, 8GB DDR3 memory

I/O Connections
- Display – DVI
- Video – HD-SDI input
- HD-SDI Frame Grabber
- Serial – 2x RS422/485/RS232,
- USB – 4x USB 3.0, 4x USB 2.0
- Ethernet – 4x 10/100/1000Base-T
- Storage : 1 x mSATA SSD

Environmental
- Sealed to IP67; Designed to Mil Std 810F
- Operating temperature -20°C to +55°C
- Storage temperature -40°C to +70°C
- Internal shock and vibration isolation

Mechanical
- 15.75lb / 7.0Kg
- Dimensions 12.6" x 9.4" x 4.3" (320mm x 240mm x 110mm)

EMC
- EN55022 Class A, EN55024
- Part 15.109, Class A
- IEC 60533
- ABS NVR 4-1-11/Table 1; ABS NVR 4-2-7/Table 9

GRIP Options

Video Capture
- HD/SDI (SMPTE 292) up to 1080p resolution
- DVI, CameraLink, Firewire, GigE Vision Optional

Additional I/O
- GPIO, WiFi, GPS and others

Additional Storage
- Removable or fixed additional SSD via 2xeSATA (up to 2 TB)

Vision4ce Software
The GRIP Epsilon is fully compatible with
- DART video tracker
- DART Multi Target Tracker
- HD DVR
- 360 Situational Awareness Vision Processor
- Moving Target Detection during sit awareness
- GRIP-VMS
- Image Stabilization