

EM VP

Embedded Video Processor Model V4/VP/U244/100



The embedded processor can support various high performance GPGPU and frame grabber options.



Hardware

- Latest Intel Core i7 - Quad Core Processor , 6MB Cache, Integrated Intel HD Graphics
- GTX1050Ti GPGPU (Optional)
- HD-SDI Video Capture modules (x2) (Optional)
- HD-SDI Video Output module (X1) Optional)
- 100GB SSD, 16GB DDR3 memory

I/O Connections

- Display - 1 x DisplayPort++ (DDI) interface, 1 x HD-SDI, 1 x VGA (Analog/CRT), 1 x LVDS interface (single ch 24-bit, dual ch 48-bit)
- Video 2 - HD-SDI input
- 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, 2 x SATA GPIO : 8-bit GPIO
- Audio HD : 1 x stereo input, 1 x stereo output

Power

- Power - DC 11.4 VDC to 12.6 VDC (+/-5%)
- Power consumption - <60W (CPU load dependent)

Operating Systems -Options

- Microsoft Windows® 10 IoT, LINUX (optional)

Mechanical

- Weight 2.2 lbs, 1kg
- Dimensions : 275 mm x 240 mm x 111 mm

Compact Embedded Vision PC

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

The GRIP VP is 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.

Environmental

- Operating temperature -40°C to +71°C (cold plate)
- Storage temperature -40°C to +85°C
- Designed to meet harsh environmental conditions, including MIL-STD-810G, Vibration 516.6 P 0.04g²/Hz at 20Hz - 1000Hz, -6dB/Octave at
- 1000Hz - 2000Hz. 60 minutes x 3 axes.
- Shock 516.6 35g, 11ms, sawtooth waveform, 3 axis
- Altitude 500.5: 15,000ft, (57.2kPa)

Options

Video Capture

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

Additional I/O

- GPIO, WiFi, GPS and others

Vision4ce® Software

The GRIP VP is fully compatible with

- HD DVR
- 360 Situational Awareness App
- DART video tracker
- Moving Target Detection
- GRIP-VMS
- Image Stabilization
- Image Fusion

Ordering Information

- The part number of the EM VP is V4/VP/U244/100
- Contact: US +1.410.384.9181
- info@vision4ce.net