

# HPERC-IBR-HH

Rugged System with 3rd Gen Intel<sup>®</sup> Core™ i7 Processor and MIL-DTL-38999 High Speed Connectors

# Features

- High speed eSATA, USB 3.0
- VITA 75 mount with passive cooling
- Intel<sup>®</sup> Core™ i7 dual or quad core Processor
- Soldered DDR3L 8GB, up to 16GB RAM
- Quad Gigabit Ethernet
- Available GPGPU on 16-lane 3rd Generation PCI Express
- Dual independent displays (HDMI/DVI/VGA)
- Simple user expansion and configuration
- Rugged temperature: -40°C to +70°C
- Tested to MIL-STD-810G and MIL-STD-461F standards; IP67 rating
- OS support: VxWorks 6.9, Ubuntu, Windows<sup>®</sup> 7 and WES7



# **Specifications**

## Core System

CPU

Intel® Core™ i7-3517UE 1.7GHz, dual-core Intel® Core™ i7-3612QE 2.1GHz, quad-core

**Chipset** Intel® QM77 Express Chipset

GPGPU MXM NVIDIA GeForce GT 745M / GTX 950M with 2GB 128-bit GDDR5 (optional)

Memory 16GB DDR3L-1333 ECC 8GB soldered down, 8GB SODIMM

BIOS AMI EFI

#### **Expansion Busses**

MXM (3rd Generation PCIe x16) PCI/104 Express® Type 2 (PCIe Gen2) PCI Express Mini Card (PCIe Gen2)

### • Standard I/O

Video 2x DVI, 1x HDMI and 1x VGA (only 2 display outputs supported concurrently)

Audio 1x amplified stereo output 1x stereo input

LAN Chipset 4x Intel® I210 Ethernet controller

LAN Speed 10/100/1000 Mbps

eSATA 2x SATA 3Gb/s (non-powered)

USB 2x USB 3.0 4x USB 2.0

**Serial** 7x RS-232/422

**GPIO** 8x digital IO



# **Specifications**

#### • Internal Storage

Removable SATA: 2x 2.5" SLC/MLC SSD on SATA 6 Gb/s (up to 1 TB) RAID: 0/1 supports up to 12Gb/s Removable: 1x SDHC - SLC (up to 64 GB)

#### Security

TPM Atmel AT97SC3204-U1A190

Secure Erase Hardware input triggered Software triggered

#### Power

Input: 10-36VDC Performance: S-States S3, S4

### Thermal

**Internal Transfer** Passive conduction to body

Storage Temperature -55°C to +85°C

Ambient Temperature -40°C to +70°C at 1 atm air Heatsink (free air convection) VITA 75.21 mount

#### • Environmental Immersion IEC 529 - IP-67

Salt Spray RTCA/DO-160G, Section 14, Category S

Altitude 0 to 50K ft.

Humidity 95% at +60°C non-condensing

Shock MIL-STD-810G - 516.6 Procedures I and V

Vibration MIL-STD-810G - 514.6 Procedure I Categories 4, 9, 11, 21 EMI/EMC: MIL-STD-461F

Temperature MIL-STD-810G - 501.5 Procedure II MIL-STD-810G - 502.5, Procedure 1 and 2

### Mechanical

**Form Factor** VITA-75 Finned Passive Convection

Dimension 304.8(L) x 150(W) x 101.95(H) mm (with mounting brackets)

Weight 3.91 kg

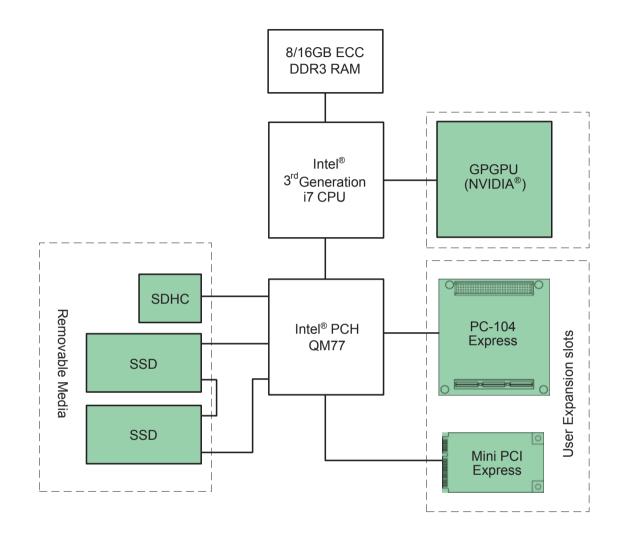
IO Connectors MIL-DTL-38999 (uniquely-keyed)

### Operating Systeml

OS Ubuntu 16.04 VxWorks 6.9.3.1 (Please contact ADLINK for other OS support) Windows® 7 (64-bit) WES 7 (64-bit/32-bit)



# Functional Diagram



# **Ordering Information**

- HPERC-IBRHH-100XN
  Finned-Convection, Intel<sup>®</sup> Core™ i7 3517UE, 16GB RAM
- HPERC-IBRHH-B00XN Finned-Convection, Intel<sup>®</sup> Core™ i7 3517UE, 8GB RAM
- HPERC-IBRHH-300XN
  Finned-Convection, Intel<sup>®</sup> Core<sup>™</sup> i7 3612QE, 16GB RAM
- HPERC-IBRHH-D00XN Finned-Convection, Intel<sup>®</sup> Core™ i7 3612QE, 8GB RAM

#### **HPERC** Accessories

#### • HPERC-H-03

HPERC<sup>™</sup> breakout cable kit including MERITEC MIL-STD Nkey & Akey I/O cables, and AC Adapter

• M3N745M-JN-A

MXM NVIDIA GeForce GT 745M GPU card, with 2GB 128-bit GDDR5 memory (must be pre-assembled at ADLINK factory)

#### • M3N950M-JN1A-A

MXM NVIDIA GeForce GTX 950M GPU card, with 2GB 128-bit GDDR5 memory (must be pre-assembled at ADLINK factory)



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