

HPERC-KBL-MH

Rugged Convection Cooled System with 7th Gen Intel[®] Xeon[®] Processor and MIL-DTL-38999 Connectors

Features

- VITA 75 mount with passive convection cooling
- Intel[®] Xeon[®] Processor E3-1505M v6, quad-core
- 16GB DDR4-2400 with ECC soldered down
- Quad Gigabit Ethernet and 6x USB ports
- Available GPGPU on PCI Express x16 Gen3
- 3 independent displays (DVI/VGA)
- Wide temperature range: storage -40°C to +85°C, operating -40°C to +75°C
- OS support: Windows 10, RHEL 7.3

Specifications

Processor & System

CPU Intel® Xeon® Processor E3-1505M v6, quad-core

Chipset Intel[®] CM238 Chipset

GPGPU NVIDIA Quadro P1000 MXM card with 4GB GDDR5 (optional) NVIDIA Quadro T1000 MXM card with 4GB GDDR6 (optional)

Memory 16GB DDR4-2400 ECC soldered down

BIOS AMI EFI

Expansion Busses

MXM (PCle x16 Gen3) PCl/104 Express Type 2 (PCle Gen2) PCl Express Mini Card (PCle Gen2)

• Standard I/O

Video 2x DVI and 1x VGA (3 simultaneous display outputs)

Audio 1x amplified stereo output 1x stereo input

LAN Chipset 4x Intel® I210 Ethernet Controller

LAN Speed 10/100/1000 Mbps

USB 6x USB 2.0

Serial Ports 7x RS-232/422

GPIO 8x digital IO



• Internal Storage Removable SATA 2x 2.5" SLC/MLC SSD on SATA 6 Gb/s

RAID 0/1 Intel RST

Removable SD 1x SDHC - SLC (up to 32 GB)

• Security TPM Infineon SLB 9665XT2.0

Secure Erase Hardware input triggered Software triggered

Power
Input: 18-36VDC
Performance: S-States S3, S4

Thermal

Internal Transfer Top-cover heatsink cooled (free air convection) VITA 75.21 mount

Storage Temperature -40°C to +85°C

Operating Temperature

CPU only: -40°C to +75°C ambient* With EGX-MXM-P1000: -40°C to +70°C ambient (Note: with 30 CFM airflow) With EGX-MXM-T1000: -40°C to +69°C ambient (Note: with 43.6 CFM airflow)

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Specifications



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

Altitude 0 to 50,000 ft.

Relative 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

Power MIL-STD-704F & MIL-STD-1275E

Operating Temp. MIL-STD-810G - 501.5 Procedure II MIL-STD-810G - 502.5, Procedure 1 and 2

Functional Diagram



VITA-75.21 Finned Passive Convection

Dimension 304.8 (L) x 150 (W) x 130 (H) mm (with mounting brackets)

DLINK

LEADING EDGE COMPUTING

Weight 5.54 kg

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

• Operating System

OS Windows® 10 (64-bit) RHEL 7.3 (Please contact ADLINK for other OS support)



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Mechanical Drawing



Ordering Information

• HPERC-KBLMH-100XN

Finned-convection, Intel[®] Xeon[®] E3-1505M v6, 16GB RAM

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HPERC Accessories

• HPERC-X-03

HPERC breakout cable kit including Amphenol MIL-STD Nkey & Akey (I/O cables), and AC adapter

EGX-MXM-P1000
 NVIDIA Ouadro P1000 MXM GP

NVIDIA Quadro P1000 MXM GPU card, with 4GB GDDR5 memory (card must be pre-assembled at ADLINK factory)

• EGX-MXM-T1000

NVIDIA Quadro T1000 MXM GPU card, with 4GB GDDR6 memory (card must be pre-assembled at ADLINK factory)



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