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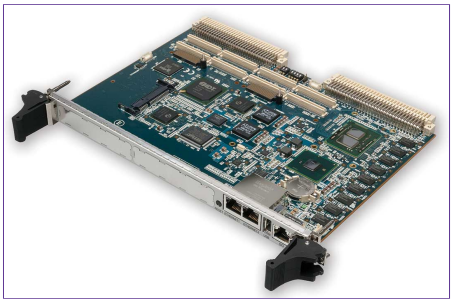
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CPU 71-13 - VME64 CPU Board with Intel® CoreTM i7 Processor



Description:

The CPU 71-13 is a single slot, 6U VMEbus computer board based on Intel® Core™ i7 mobile processor. In combination with Intel® QM57 chipset, the Advme8035 offers high-performance processing capability and advanced graphics function. The Intel® Core™ i7 mobile processor is capable of running four threads simultaneously on its dual core using Hyper-Threading Technology and therefore ideal for applications requiring high performance. The direct-mounted DDR3- 1066 main memory with ECC support ensures high reliability of the board. Two Gigabit Ethernet ports, one USB port, and one RS-232C serial port are available on the front panel and there are also one CFastTM card socket and two PMC/XMC slots on board. The CPU 71-13 supports VME64. Recognizing slot automatically, it can operate as both a system controller board and a non-system controller board in VMEbus. More than one unit of Advme8035 can be installed in a system in parallel depending on the increase of processing load.

Main Features:

PROCESSOR Options:

- Intel® CoreTM i7-620LE processor (4MB, 2GHz)
- Intel® CoreTM i7-660UE processor (4MB, 1.33GHz)
- Intel® CoreTM i7-620UE processor (4MB, 1.06GHz)
- Intel® Celeron® processor U3405 (2MB, 1.06GHz)

Max current:

- CoreTM i7-620LE: up to 15W in total,
- Other CPUs: up to 22W in total

CACHE MEMORY

- FLC (First Level Cache) 32kB+32kB (each core)
- MLC (Mid Level Cache) 256kB (each core)
- LLC (Last Level Cache) refer to processor (shared core)

INTEL TECHNOLOGY

- Intel Turbo Boost Technology (except Celeron®)
- Intel Hyper-Threading Technology (except Celeron®), Intel 64

CHIPSET

- Intel® QM57 Platform Controller Hub
- Intel® 82577 GbE LAN Controller

MEMORY

- Main memory: Direct-mounted DDR3-1066 (*1) SDRAM, Dual channel (*2), ECC supported, up to 4GB (optional)
- Boot ROM: SPI-FLASH memory, 8MB
- 1x CFastTM (Flash disk with SATA interface) port, Rev 1.0, SATA-300
- 2x PMC/XMC slots, IEEE1386.1 / VITA42.3, Single size, PCI64/66, PCI Express X8 lane

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FRONT I/O

- 2x 10/100/1000BASE-T Ethernet, RJ-45 connector
- 1x RS-232C serial port, RJ-45 connector
- 1x USB2.0, USB-Type A connector
- Optional I/Os in exchange for PMC/XMC slot 2:
- 1x USB2.0, USB-Type A connector
- 1x Analog VGA, 15-pin high-density D-sub female connector

VME P1/P2 CONNECTOR

- VMEbus C.3, ANSI/VITA1-1994 VME64, ANSI/VITA1.1-1997 VME64
- Extensions, ANSI/VITA1.5-2003 2eSST

FRONT PANEL

- Power status LED (green), Disk access LED (green), Reset switch

ON-BOARD

- Jumper post for CMOS clear, Battery holder for maintaining date/time data (CR2032)

RAS FUNCTIONS

- Watchdog timer: selectable from 125ms, 250ms, 500ms, 1s, 2s, 4s, 8s, and 16s

Temperature monitor:

- CPU internal and board surface temperature

POWER SUPPLY

- DC5V±5% (supplied from J1/J2 connector)
- Battery: CR2032, battery life for 4 years (stored at 25÷C)

MECHANICAL Form factor:

- 6U size, 4HP (1 slot width)

ENVIRONMENTAL

- Operating Temperature: 0÷C to +60÷C (air flow over 2m/s), -40÷C to +85÷C (air flow over 2m/s, screening version)
- Operating Humidity: up to 95% RH (no condensation)
- Storage Temperature: -40÷C to +85÷C
- Storage Humidity: up to 95% RH (no condensation)
- Conformal coating (optional)
- RoHS compliant

Operation Systems

- Windows® 7, Windows® Embedded Standard 7, Wind River Linux, VxWorks 6.8

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