

6U VME — INTEL CORE i7 SBC



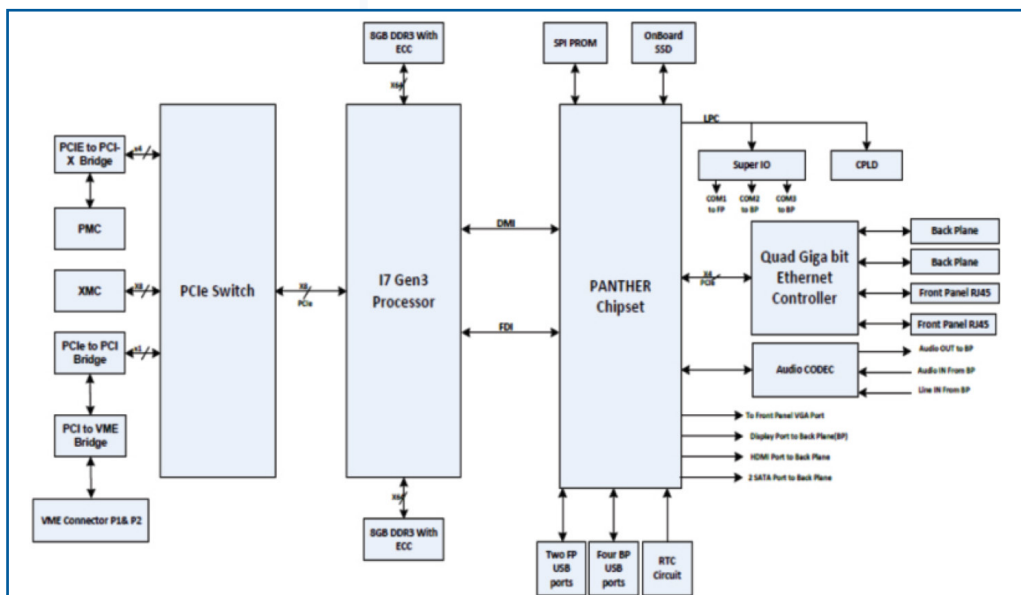
6U VME — INTEL CORE i7 Single Board Computer

Key Features

- Single slot 6U VME Single Board Computer
- 3rd Generation Intel Core i7 quad core processor
- Two channels of soldered DDR3 SDRAM with
- ECC up to 16 GB
- 32KB L1 data and instruction caches per core
- 256KB internal L2 cache per core
- Up to 8MB shared data and instruction L3 cache
- Up to 64GB SATA NAND - SSD Flash

Cornet's C15147 is a rugged high-performance Single Board Computer (SBC) built around 3rd generation Intel® Quad Core™ i7-based integrated processor. The Intel® Core™ i7 offers integrated Display Engine; Processor Graphics core @ HD4000 and an Integrated Memory Controller with quad core processor upto 2.2GHz. Mobile Intel® 6 series chipset provides high level I/O bandwidth for both on-board and external IO functions.

The C15147 is designed to meet the wide range of applications from industrial to defence, Aerospace and mission critical applications.



Card Schematic

Board Design

Processor:	Intel Quad Core i7 3615QE 3rd Gen. Processor 22 nm monolithic die processing technology 32KB L1 data and instruction caches per core 256KB internal L2 cache per core Up to 8MB shared data and instruction L3 cache
Memory:	Maximum memory configuration of dual channels up to 16 GB DDR3L SDRAM soldered with ECC
SATA:	Two on board SSD Two SATA routed to backplane
Software Support:	Windows7 professional 64 bit, Red Hat Linux
BIOS:	Flash (uEFI BIOS) 16 MB FLASH - uEFI BIOS setting
On-board Expansion sites	XMC : x8 PCIe PMC : 64-bit 133Mhz PCI-X
Front Panel I/O :	Two Gigabit Ethernet ports 1 COM Port - right angle connector 2 USB ports (USB 2.0/3.0) 1 VGA 4 GPIO - right angle connector PMC/XMC
Rear Panel I/O:	1 HDMI 1 Display Port 1 RS 232 1 RS 422 4 USB 2.0 ports 2 SATA ports 12 GPIO lines
GPIO	12 GPIO pins – Software configurable
Ports:	GB Ethernet: Two Copper on front panel Two Copper on rear plane

UART:

- One RS232 full modem on front panel
- One RS422 (TX/RX) on back plane
- One RS232 full modem on back plane

Display ports:

- One VGA port on front panel
- One HDMI port on back plane
- One Display port on back plane

Audio:

- One Audio OUT to back plane
- Two Audio IN to back plane

USB: Two USB 2.0/USB 3.0 on front panel

- Four USB 2.0 on back plane

Mechanical

Form factor: 6U VPX 64

Power

Supply: +5V and +12V

Environment

Cooling: Air Cooling

Operating Temp: -10°C to 55°C

Storage Temp: -40°C to 85°C

Humidity: 10-90% at room temperature non-condensing

Other Features

LED for power indication

RTC with chargeable Lithium ion battery

Onboard ambient temperature sensors

Product is Subject to U.S. Export Laws



ISO-9001:2015 Registered

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