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.
Specifications (6U VME — INTEL CORE i7 SBC)

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: Windows 7 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 Ports:
- 12 GPIO pins – Software configurable

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