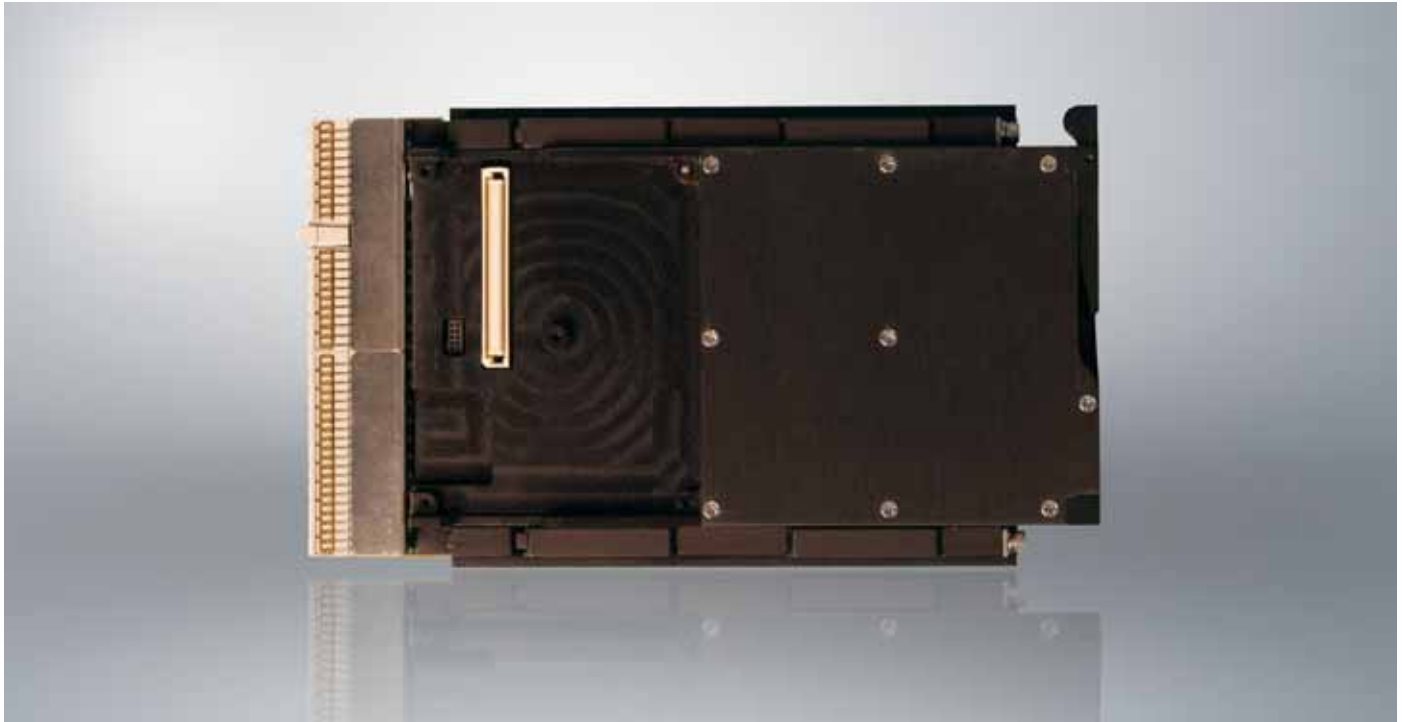


PC3030 SBC



Single Board Computer

Intel® Core™2 Duo

Conduction Cooled

3U, cPCI

Features

- Choice of ULV 1.2GHz, LV 1.86GHz, or SV 2.26GHz dual-core processors
- Up to 8GB DDR3 1066MHz Memory
- Supports Intel Virtualization Technology
- Dual Gigabit Ethernet 10/100/1000 Base-T
- VITA 47
- Flexible mezzanine site for feature expansion/customization

The unit described represents a typical configuration of this family of products. Specifications may be configurable for specific customer requirements. Please contact your GD Canada representative to discuss your specific needs.

Processing

- Intel® Core™ 2 Duo ULV 1.2GHz, LV 1.86GHz, or SV 2.26GHz
- Supports Intel Virtualization Technology (VT-x, VT-d)
- Supports Intel Trusted Execution Technology (TXT)
- 6MB (LV and SV) or 3MB (ULV) L2 cache on-die
- 1066 MHz (LV and SV) or 800 MHz Front Side Bus
- Up to 8GB DDR3 Memory (1066MHz LV and SV, 800MHz ULV)

Interfaces

- Dual Gigabit Ethernet 10/100/1000 Base-T (PHY/SerDes)
 - Boot from LAN support
- 2 x External Serial ATA Interfaces (eSATA)
- 3 x USB 2.0 ports
 - Boot From USB support
- 2 x Configurable serial ports (RS232/RS422)
- 4 x GPIOs capable of generating interrupts
- Up to 16GB of onboard SATA flash storage
- Integrated TPM 1.2
- PICMG 2.9 and IPMI 1.5 with VITA 46.11 subset
- cPCI System Slot-only supporting up to 3 peripherals
- Flexible custom mezzanine site for feature expansion/customization (XMS)

Graphics

- Intel X4500 Internal graphics
- CRT video output

Optional XMS Mezzanine Functions

- Dual Gigabit Ethernet
- Dual DVI or DisplayPort™ graphics output ports
- 24-bit resolution High Definition Audio with stereo Line In/Out
- Mic in and 1.5W speaker output
- Additional SATA flash storage

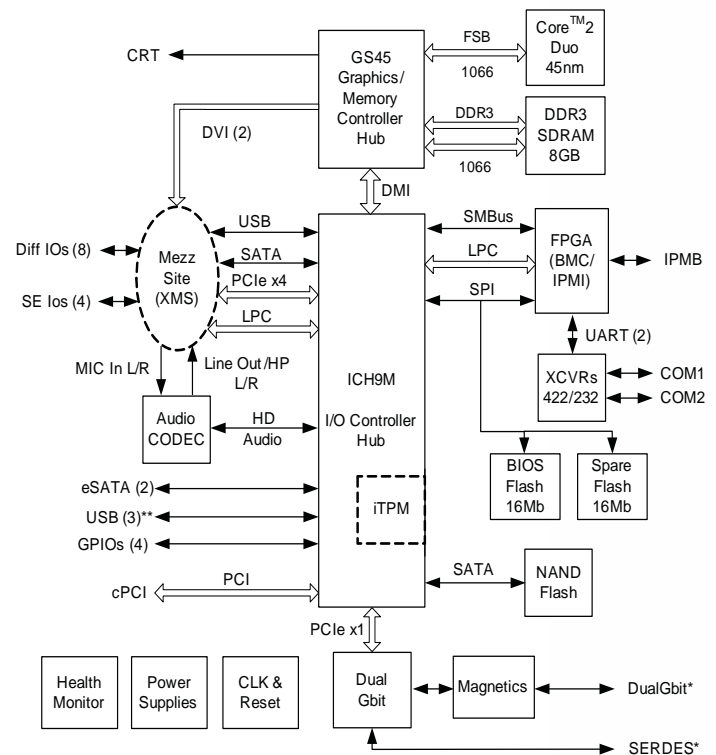
Operating Systems

- Microsoft Windows®
- Linux, RHEL and others
- VxWorks 6.x
- LynxOS
- Solaris x86

Environmental

- Conduction cooled per ANSI/VITA 30.1
- VITA 47 Compliant
 - Operating temperature: CC4, -40°C to +85°C at card edge
 - Storage temperature: C4, -55°C to +105°C
 - Vibration: V3, extended to .12g2/Hz from 5 to 2000Hz
 - Shock: OS2, 40g, 11msec

PC3030 Block Diagram



* The SERDES and Gbit pins are shared on the backplane .
 ** USB 3 is data only. Vbus must be supplied by the backplane

GENERAL DYNAMICS
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