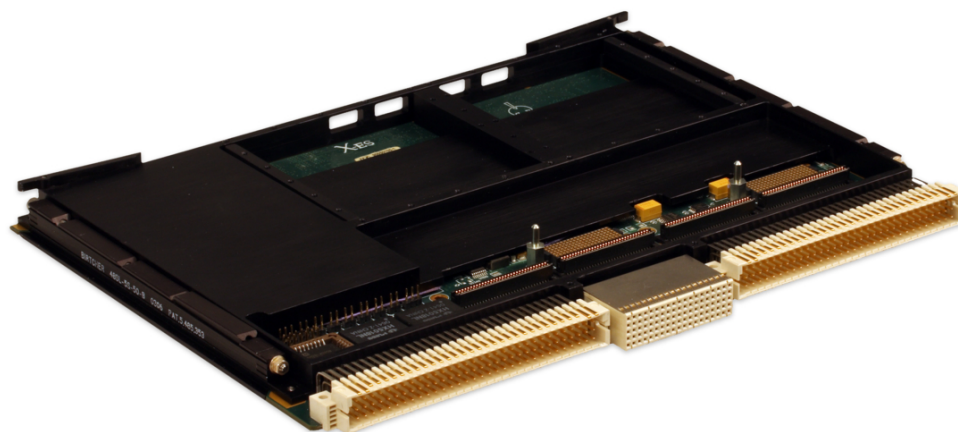


# XCalibur4130

Intel® Core™2 Duo Processor-Based 6U Conduction- or Air-Cooled VME Module

- ▶ Dual Intel® Core™2 Duo Processor-Based 6U Conduction- or Air-Cooled VME Module
- ▶ Conduction or air cooling
- ▶ Up to 4 GB of DDR2-400 ECC SDRAM per processor
- ▶ Up to 4 MB firmware hub flash (or 2 MB with redundancy) per processor
- ▶ Up to 4 GB of NAND flash per processor
- ▶ Two Gigabit Ethernet ports
- ▶ Two PrPMC/XMC interfaces
- ▶ VME64x 2eSST support
- ▶ Linux LSP
- ▶ Wind River VxWorks BSP
- ▶ QNX Neutrino BSP
- ▶ Green Hills INTEGRITY BSP



## XCalibur4130

The XCalibur4130 is a 6U VME64x single-board computer featuring two Intel Core 2 Duo processors and a ruggedized, conduction- or air-cooled design, making it ideal for today's rugged embedded computing applications.

For each processor, the XCalibur4130 provides up to 4 GB of DDR2-400 ECC SDRAM, up to 4 MB firmware hub flash (or 2 MB with redundancy), and a PrPMC/XMC slot. The XCalibur4130 also supports dual Gigabit Ethernet, I<sup>2</sup>C, PMC I/O, XMC I/O, and RS-232/422/485 serial ports out the P2/P0 connectors.

The XCalibur4130 is a ruggedized, high-performance, feature-rich solution to support the next generation of rugged embedded applications. A VxWorks Board Support Package (BSP), QNX BSP, and Linux 2.6 LSP are available.

# X-ES

Extreme Engineering Solutions

*...Always Fast*

### Extreme Engineering Solutions

3225 Deming Way, Suite 120 • Middleton, WI 53562

Phone: 608.833.1155 • Fax: 608.827.6171

sales@xes-inc.com • <http://www.xes-inc.com>

**Processors**

- Intel Core 2 Duo at up to 1.8 GHz
- 800-MHz FSB
- Up to 6 MB of L2 cache

**Memory**

- Up to 4 GB of DDR2-400 ECC SDRAM per processor
- Up to 4 MB firmware hub flash (or 2 MB with redundancy) per processor
- Up to 4 GB of NAND flash per processor

**VME**

- VME64 (ANSI/VITA 1-1994 R2002)
- VME64x (ANSI/VITA 1.1-1997 R2003)
- 2eSST (ANSI/VITA 1.5-2003)

**PrPMC**

- PCI-X (32/64-bit, 66/100-MHz)
- PCI (32/64-bit, 33/66-MHz)

**XMC (VITA 42.3)**

- x1, x2, x4 links supported
- Full-duplex 2.5-Gbps lanes

**Interfaces**

- Two 10/100/1000-Mbps backplane Ethernet interfaces

**Software Support**

- Linux LSP
- Wind River VxWorks BSP
- QNX Neutrino BSP
- Green Hills INTEGRITY

**Environmental Requirements**

Contact factory for appropriate board configuration based on environmental requirements.

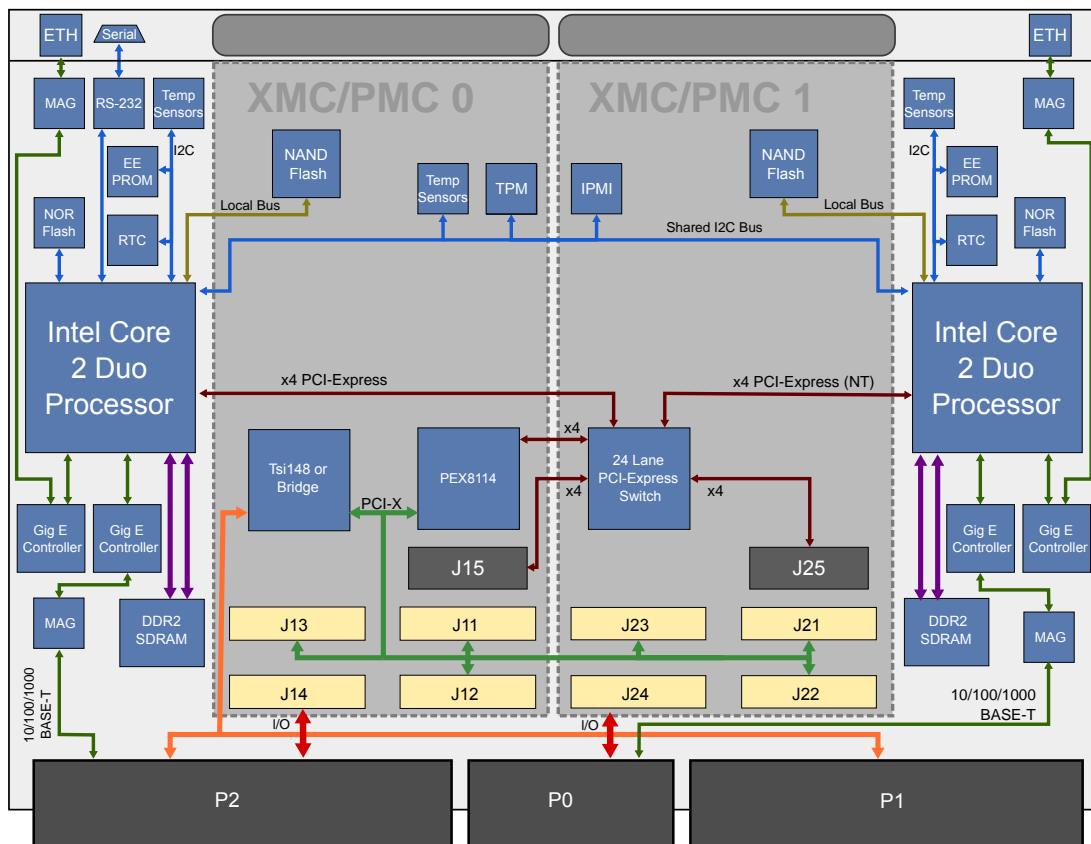
- Supported ruggedization levels (see chart below): Level 1, Level 2, Level 3, Level 4, Level 5
- Humidity: 0% to 95% non-condensing

**Power Requirements**

Tested with single Intel Core 2 Duo processor

- Maximum power consumption: 31 W (with 1.8-GHz processor), 26 W (with 1.4/1.2-GHz processor)

Ruggedization Level	Level 1	Level 2	Level 3	Level 4	Level 5
Cooling Method	Standard Air-Cooled	Extended Air-Cooled	Rugged Air-Cooled	Conduction-Cooled	Conduction-Cooled
Operating Temperature	0 to +55 °C	-20 to +65 °C	-40 to +70 °C	-40 to +70 °C	-40 to +85 °C
Vibration	0.002 g <sup>2</sup> /Hz	0.002 g <sup>2</sup> /Hz	0.04 g <sup>2</sup> /Hz	0.1 g <sup>2</sup> /Hz	0.1 g <sup>2</sup> /Hz
Shock	20 g	20 g	40 g	40 g	40 g



XCalibur4130

