The XPedite7130 is a high-performance, low-power 3U cPCI single board computer based on the Intel Core 2 Duo processor. With two Gigabit Ethernet ports and a 33 MHz PCI interface, the XPedite7130 is ideal for high-bandwidth data-processing applications.

The XPedite7130 accommodates up to 4 GB of DDR2 ECC SDRAM to support memory-intensive applications and hosts numerous I/O ports including Gigabit Ethernet, USB 2.0, SATA, and RS-232/RS-422/RS-485 through the P2 backplane connector.

Linux 2.6, Wind River VxWorks, QNX Neutrino, and Green Hills INTEGRITY Board Support Packages (BSPs), as well as Windows drivers, are available for the XPedite7130.
Processor
- Intel Core 2 Duo at up to 1.8 GHz
- 200 MHz (800 MT/s) FSB
- Up to 6 MB of L2 cache

Memory
- Up to 4 GB of DDR2-400 ECC SDRAM
- Up to 2 MB firmware hub flash (or 1 MB with redundancy)
- 4 GB of NAND flash

J1 cPCI Interface
- 32-bit, 33/66-MHz PCI interface
- System controller capable with on board clocking and arbitration
- Peripheral slot capable

J2 cPCI Interface
- Two Gigabit Ethernet ports
- Six SATA ports
- Two USB 2.0 ports
- Two RS-232/RS-422/RS-485 serial ports
- I²C port
- 3.3V GPIO signals

PrPMC/XMC Site
- 32-bit, 33-MHz PCI bus (PMC interface)
- x4 PCIe port (XMC interface)

Front Panel I/O
- Front panel RJ-45 Ethernet, USB, and micro DB9, RS-232 serial ports available via optional plugover module

Software Support
- Linux BSP
- Wind River VxWorks BSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP
- Windows drivers

Physical Characteristics
- 3U cPCI conduction- or air-cooled form factor
- Dimensions: 100 mm x 160 mm
- 0.8-in. pitch

Environmental Requirements
- Contact factory for appropriate board configuration based on environmental requirements.
- Supported ruggedization levels (see chart below): 1, 3, 5
- Conformal coating available as an ordering option

Power Requirements
- Maximum power consumption: 37 W (with 1.8-GHz processor), 28 W (with 1.4/1.2-GHz processor)

Supported Ruggedization Level

<table>
<thead>
<tr>
<th>Cooling Method</th>
<th>Level 1</th>
<th>Level 3</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0 to +55 °C ambient (300 LFM)</td>
<td>-40 to +70 °C (600 LFM)</td>
<td>-40 to +85 °C (board rail surface)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0 to +85 °C ambient</td>
<td>-40 to +105 °C ambient</td>
<td>-55 to +105 °C ambient</td>
</tr>
<tr>
<td>Vibration</td>
<td>0.002 g²/Hz, 5 to 2000 Hz</td>
<td>0.04 g²/Hz (maximum), 5 to 2000 Hz</td>
<td>0.1 g²/Hz (maximum), 5 to 2000 Hz</td>
</tr>
<tr>
<td>Shock</td>
<td>20 g, 11 ms sawtooth</td>
<td>30 g, 11 ms sawtooth</td>
<td>40 g, 11 ms sawtooth</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 95% non-condensing</td>
<td>0% to 95% non-condensing</td>
<td>0% to 95% non-condensing</td>
</tr>
</tbody>
</table>