**XPedite7530**

4th Generation Intel® Core™ i7 Haswell Processor-Based 3U Conduction- or Air-Cooled CompactPCI Module

- Supports 4th generation Intel® Core™ i7 processors
- 3U CompactPCI module
- Configurable as system controller or peripheral
- Conduction or air cooling
- Up to 16 GB of DDR3L-1600 ECC SDRAM in two channels
- Up to 32 GB of NAND flash
- PMC/XMC interface
- Two Gigabit Ethernet ports
- Four SATA ports
- Two USB 2.0 ports
- One graphics port
- Two RS-232/422/485 serial ports
- Intel® vPro™/AMT support
- Wind River VxWorks BSP
- Linux BSP
- Microsoft Windows drivers
- Contact factory for availability of Green Hills INTEGRITY, QNX Neutrino, and LynuxWorks BSPs

The XPedite7530 is a high-performance 3U CompactPCI single board computer that is ideal for ruggedized systems requiring high-bandwidth processing and low power consumption. With the 4th generation Intel® Core™ i7 Haswell processor, the XPedite7530 delivers enhanced performance and efficiency for today’s network information processing and embedded computing applications.

Complementing processor performance, the XPedite7530 features up to 16 GB of DDR3L-1600 ECC SDRAM, PrPMC/XMC support, and up to 32 GB of NAND flash. The XPedite7530 also hosts numerous I/O ports, including Gigabit Ethernet, USB, SATA, graphics, and RS-232/422/485 through the backplane connectors.

The XPedite7530 is a powerful, feature-rich solution for the next generation of compute-intensive embedded applications. Wind River VxWorks and Linux Board Support Packages (BSPs) are available, as well as Microsoft Windows drivers.
### Processor
- 4th generation Intel® Core™ i7
- Integrated high-performance 3D graphics controller

### Memory
- Up to 16 GB of DDR3L-1600 ECC SDRAM on two channels
- Up to 32 GB of NAND flash
- 64 MB NOR boot flash
- 64 kB EEPROM

### J1 cPCI Interface
- 32-bit PCI interface operating at 33 MHz or 66 MHz
- System controller-capable with onboard clocking and arbitration
- Peripheral slot-capable

### J2 cPCI Interface
- Two 10/100/1000BASE-T Gigabit Ethernet ports
- Four SATA ports
- Two USB 2.0 ports
- HDMI/DVI-D or dual-mode DisplayPort interface
- Two RS-232/422/485 serial ports
- 3.3 V GPIO signals

### PrPMC/XMC Site
- 32-bit, 33 MHz PCI bus (PMC interface)
- x8 PCI Express Gen3-capable port (XMC interface)
- One SATA port (XMC interface)

### Additional Features
- Non-volatile memory write protection
- Optional Trusted Platform Module (TPM)
- IEEE 1588 support on one Gigabit Ethernet port
- Intel® Active Management Technology (AMT) supported by Intel® vPro™ Technology

### Software Support
- Wind River VxWorks BSP
- Linux BSP
- Microsoft Windows drivers
- Contact factory for availability of Green Hills INTEGRITY, QNX Neutrino, and LynuxWorks BSPs

### Physical Characteristics
- 3U cPCI conduction- or air-cooled form factor
- Dimensions: 100 mm x 160 mm

### 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
- Power will vary based on configuration and usage. Please consult factory.

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**Supported Ruggedization Level**

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 3</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Method</td>
<td>Standard Air-Cooled</td>
<td>Rugged Air-Cooled</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to +55°C ambient (300 LFM)</td>
<td>-40 to +70°C (600 LFM)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to +85°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>
</tr>
<tr>
<td>Shock</td>
<td>20 g, 11 ms sawtooth</td>
<td>30 g, 11 ms sawtooth</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 95% non-condensing</td>
<td>0% to 95% non-condensing</td>
</tr>
</tbody>
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