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

XPedite7530

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.

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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.

Supported Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C ambient
Vibration	0.002 g²/Hz, 5 to 2000 Hz	0.04 g²/Hz (maximum), 5 to 2000 Hz	0.1 g²/Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing