

XPedite7530

End Of Life

5th Generation Intel® Core™ i7 Broadwell-H Processor-Based Conduction- or Air-Cooled 3U CompactPCI Module **Please contact X-ES Sales**

- › Supports 5th generation (Broadwell-H) and 4th generation (Haswell) Intel® Core™ i7 processors
- › 3U CompactPCI module
- › Configurable as system controller or peripheral
- › Conduction or air cooling
- › Up to 8 GB of DDR3 ECC SDRAM in two channels
- › Up to 32 GB of NAND flash
- › XMC/PMC 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 5th generation Intel® Core™ i7 Broadwell-H processor, the XPedite7530 delivers enhanced performance and efficiency for today's network information processing and embedded computing applications. The XPedite7530 also leverages Intel® Iris™ Pro graphics for graphics-intensive applications and serves as a general-purpose GPU for demanding data processing applications.

Complementing processor performance, the XPedite7530 features up to 8 GB of DDR3 ECC SDRAM, XMC/PrPMC 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.

X-ES

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...Always Fast

Extreme Engineering Solutions

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Processor

- 5th generation Intel® Core™ i7 (Broadwell-H)
- 4th generation Intel® Core™ i7 (Haswell)
- Integrated high-performance 3D graphics controller
- Up to Intel® Iris™ Pro Graphics 6200

Memory

- Up to 8 GB of DDR3 ECC SDRAM in 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 capable of 3 Gb/s
- 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

XMC/PrPMC 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.

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 †	-40 to +70°C ambient †	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C (maximum)
Vibration	0.002 g ² /Hz (maximum), 5 to 2000 Hz	0.04 g ² /Hz (maximum), 5 to 2000 Hz	0.1 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing	Up to 95% non-condensing	Up to 95% non-condensing

† Contact factory for airflow rate details.

