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Find the *Extreme Engineering Solutions XPedite2400* at our website: *Click HERE*

XPedite2400

Xilinx Virtex-7 FPGA-Based Conduction- or Air-Cooled Digital Signal Processing XMC Module

- Xilinx Virtex-7 FPGA XC7VX690T
- Conduction- or air-cooled XMC module
- Up to 4 GB of DDR3-1333 SDRAM in two channels
- 128 MB of user NOR configuration flash
- Non-volatile FPGA configuration flash
- x8 PCI Express Gen3 on P15
- x8 GTX transceivers on P16
- Up to 32 LVDS / 64 single-ended I/O on P14
- Up to 19 LVDS / 38 single-ended I/O on P16
- X-ES FPGA Development Kit (FDK) is available
- Linux driver support for FDK



XPedite2400

The XPedite2400 is a high-performance, reconfigurable, conduction- or air-cooled XMC module based on the Xilinx Virtex-7 family of FPGAs. With a x8 PCI Express interface, external memory, and flexible, high-density I/O, the XPedite2400 is ideal for customizable, high-bandwidth, data-processing applications.

The XPedite2400 provides a high-performance, feature-rich solution capable of interfacing to and processing streaming data from a wide variety of sensors. The X-ES FPGA Development Kit (FDK) is provided to support the requirements of high-performance, real-time, embedded streaming data applications and simplify FPGA development. It includes IP blocks, example FPGA designs, and software to control and communicate with FPGAs. A Linux Software Development Kit (SDK) is available.

X-ES
Extreme Engineering Solutions

...Always Fast

Extreme Engineering Solutions
9901 Silicon Prairie Parkway • Verona, WI 53593
Phone: 608.833.1155 • Fax: 608.827.6171
sales@xes-inc.com • https://www.xes-inc.com

FPGA

- Xilinx Virtex-7 for high-performance logic and DSP applications
- Standard FPGA is Xilinx Virtex-7 XC7VX690T

Additionally Supported FPGAs

- Xilinx Virtex-7 XC7VX330T
- Xilinx Virtex-7 XC7VX415T
- Xilinx Virtex-7 XC7VX485T
- Support for commercial and industrial temperature as well as -1, -2, -3 speed grades

Memory

- Up to 4 GB of DDR3-1333 SDRAM in two 64-bit channels
- 128 MB of user NOR flash

XMC Interface

- x8 PCI Express port
- Four GPIO via I²C expander

P14 User I/O

- 32 FPGA differential/LVDS user I/O

P16 I/O

- Eight GTX transceivers
- 19 LVDS
- May be used as x8 PCI Express

Software

- X-ES FPGA Development Kit (FDK)
- Linux support

Physical Characteristics

- XMC conduction- or air-cooled form factor
- Dimensions: 149 mm x 74 mm

Environmental Requirements

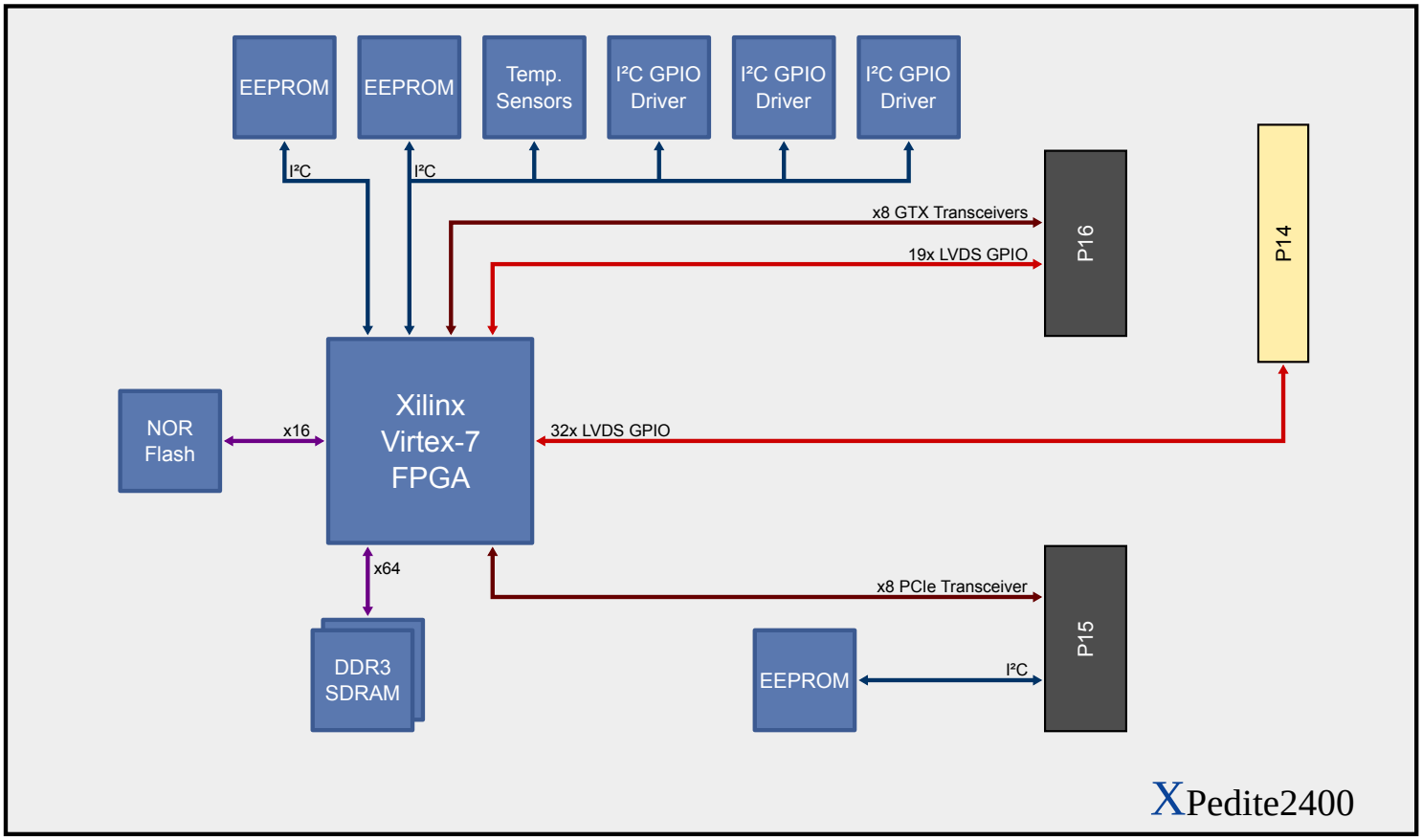
Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 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 (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 (maximum)
Vibration	0.002 g²/Hz (maximum), 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



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