

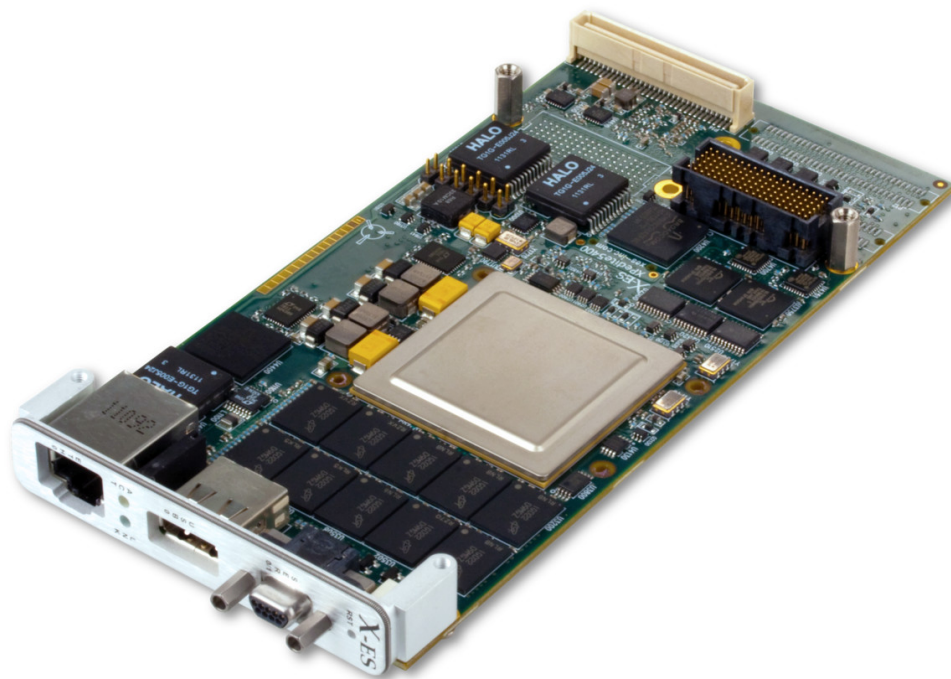
XPedite5400

End of Life

NXP QorIQ Eight-Core P4080 Processor-Based Air-Cooled XMC/PMC Module with Three Gigabit Ethernet Ports

Please contact X-ES Sales

- ▶ NXP QorIQ P4080 processor with eight Power Architecture® e500mc cores at up to 1.5 GHz
- ▶ Alternate NXP QorIQ processors: P3041, P4040
- ▶ Air-cooled
- ▶ Up to 8 GB of DDR3 ECC SDRAM
- ▶ Up to 256 MB of NOR flash (with redundancy)
- ▶ Up to 16 GB of NAND flash
- ▶ x4 PCI Express interface to P15
- ▶ XAUI to XMC site (optional)
- ▶ PCI PrPMC interface
- ▶ Three Gigabit Ethernet ports
- ▶ Two RS-232/422/485 serial ports
- ▶ Two USB 2.0 ports (one to P14/P16 and one to the front panel or P14/P16)
- ▶ Two SATA ports to XMC site (optional)
- ▶ Linux BSP
- ▶ Wind River VxWorks BSP
- ▶ Green Hills INTEGRITY-178 tuMP BSP



XPedite5400

The XPedite5400 is a high-performance XMC/PrPMC single board computer supporting NXP (formerly Freescale) QorIQ P3 and P4 processors. With a number of processor options to choose from, X-ES can provide a product to meet the specific power and performance requirements of today's embedded computing applications.

The P4080 processor brings the raw power of eight e500mc cores running at up to 1.5 GHz and dual-channel DDR3 memory, delivering unparalleled multi-core performance. For applications that are more power-conscious, the P3041 processor offers four e500mc cores running at up to 1.5 GHz with a single channel of DDR3 memory, all within a significantly reduced power envelope. Additional reduced-function processors are available to meet any power and performance budget.

The XPedite5400 provides a high-performance, feature-rich solution for current and future generations of embedded applications. Wind River VxWorks, Linux and Green Hills INTEGRITY-178 tuMP Board Support Packages (BSPs) are available.

X-ES

Extreme Engineering Solutions

*"Fast, Flexible, Customer-Focused
Embedded Solutions"*

Extreme Engineering Solutions

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Processor

- NXP (formerly Freescale) QorIQ P4080 processor
- Eight Power Architecture® e500mc cores at up to 1.5 GHz
- 128 kB L2 cache per core
- 1 MB L3 cache per channel
- IEEE 754 Floating-Point Unit support

Alternate Processor Configurations

- P3041 processor with four Power Architecture® e500mc cores at up to 1.5 GHz
- P4040 processor with four Power Architecture® e500mc cores at up to 1.5 GHz

Memory

- Up to 8 GB of DDR3 ECC SDRAM
- Up to 256 MB of NOR flash (with redundancy)
- Up to 16 GB of NAND flash

PrPMC Interface

- 66/33 MHz PCI
- 32-bit bus interface

P15 XMC Interface

- x4 configurable PCI Express

P14/P16 XMC/PMC Interface

- Two 10/100/1000BASE-T Ethernet ports
- Two RS-232/422/485 serial ports
- 3.3 V GPIO
- Up to two USB 2.0 ports
- Two SATA ports capable of 3 Gb/s to P16 (optional)
- XAUI port to P16 (optional)

Front Panel I/O

- One Gigabit Ethernet port
- Two RS-232 serial ports
- One USB 2.0 port

Software Support

- Linux BSP
- Wind River VxWorks BSP
- Green Hills INTEGRITY-178 tuMP BSP

Physical Characteristics

- Air-cooled XMC/PMC form factor
- Dimensions: 149 mm x 74 mm, 10 mm stacking height

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

Power Requirements

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

Ruggedization Level	Level 1
Cooling Method	Standard Air-Cooled
Operating Temperature	0 to +55°C ambient †
Storage Temperature	-40 to +85°C ambient
Vibration	0.002 g ² /Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing

† Contact factory for airflow rate details.

