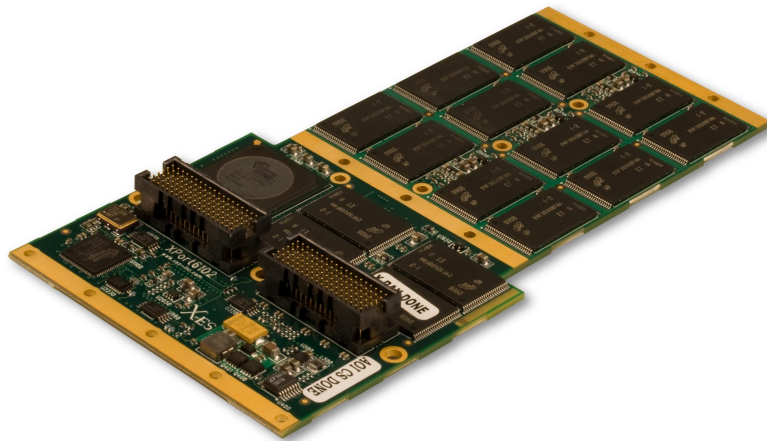


# XPort6102

## XMC Solid State Drive (SSD) Solution

- ▶ XMC PCIe x1 interface
- ▶ Up to 160 GB capacity
- ▶ Five internal SATA controllers for maximum bandwidth
- ▶ Configurable RAID 0 or RAID 1 support
- ▶ 100 MBps write performance (RAID 0)
- ▶ 220 MBps read performance (RAID 0)
- ▶ Based on reliable SLC NAND flash technology
- ▶ 100,000 program/erase cycles
- ▶ Designed for rugged environments
- ▶ -40 °C to 85 °C operating temperature range



### XPort6102

The XPort6102 has been designed from the ground up to meet today's ruggedized XMC storage requirements. By utilizing solid-state NAND flash technology, the XPort6102 provides a high-performance, high-density, reliable memory solution. The XPort6102 is capable of operating within the demanding environments of MIL-STD-810F, including harsh temperatures from -40 °C to 85 °C as well as rigorous shock and vibration conditions.

The use of SLC NAND flash components allows the XPort6102 to support at least 100,000 program erase cycles. Five discrete NAND flash controllers and a hardware RAID controller maximizes either performance or reliability.

The XPort6102 provides best-in-class performance, supporting up to 220 MB/s of sustained read and 100 MB/s of sustained write in a RAID-0 configuration.

# X-ES

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*...Always Fast*

### Extreme Engineering Solutions

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**P15 XMC Interface**

- x1 PCI Express port

**P16 XMC Interface**

- Optional external SATA interface

**Storage Characteristics**

- SLC technology
- Up to 160 GB total
- Five internal SATA drives
- Internal RAID controller
- RAID 0 support for increased performance
- RAID 1 support for increased reliability

**Physical Characteristics**

- XMC conduction- or air-cooled form factor
- Dimensions: 143.75 mm x 74 mm

**Environmental Requirements**

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below):  
Level 1, Level 2, Level 3, Level 4, Level 5
- Tested to MIL-STD-810F requirements

Ruggedization Level	Level 1	Level 2	Level 3	Level 4	Level 5
Cooling Method	Standard Air-Cooled	Extended Air-Cooled	Rugged Air-Cooled	Conduction-Cooled	Conduction-Cooled
Operating Temperature	0 to +55 °C	0 to +65 °C	-40 to +70 °C	-40 to +70 °C	-40 to +85 °C
Vibration	0.002 g <sup>2</sup> /Hz	0.002 g <sup>2</sup> /Hz	0.04 g <sup>2</sup> /Hz	0.1 g <sup>2</sup> /Hz	0.1 g <sup>2</sup> /Hz
Shock	20 g	20 g	40 g	40 g	40 g
Storage Temperature	-40 to +105 °C	-40 to +105 °C	-55 to +105 °C	-55 to +105 °C	-55 to +105 °C

