

# XPand6902

Enclosure for Removable Mass Storage Modules

- ▶ Up to two removable and X-ES ruggedized 2.5 in. SATA SSD memory modules with high-reliability connectors designed to support up to 100,000 mating cycles
- ▶ Toolless removal of storage modules
- ▶ Low power dissipation
- ▶ Physical dimensions of 5.1 in. (L) x 5.53 in. (W) x 1.65 in. (H)
- ▶ Weighs less than 1.25 lbs (without SSDs)
- ▶ Supports MIL-38999 Meritec Hercules rugged SATA connector
- ▶ Sized to fit on sub-½ ATR conduction-cooled chassis (reduced height and length)
- ▶ Environmentally sealed
- ▶ Supports the XPort6193 and XPort6196 removable memory modules



## XPand6902

The XPand6902 enables system integrators to easily include rugged and removable high-density storage in their military and aerospace platforms. The XPand6902 is a small and portable enclosure for up to two X-ES ruggedized 2.5 in. SATA SSD removable memory modules. It provides a robust connection to another computing system's external SATA interface using the high-performance Meritec Hercules MIL-38999 connector and cabling system.

The XPand6902's removable storage modules are based on the standard 2.5 in. drive specification, providing a COTS solution that mitigates the EOL and life cycle issues that plague many flash-based storage solutions. These standards-based drives have been modified to enable easy insertion and extraction for the most demanding environments, and they include high-reliability connectors designed to support up to 100,000 mating cycles.

# X-ES

Extreme Engineering Solutions

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

### Extreme Engineering Solutions

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**Physical Characteristics**

Dimensions do not include connectors

- 5.1 in. (L) x 5.53 in. (W) x 1.65 in. (H)
- Weighs less than 1.25 lbs (without SSDs)
- Up to two removable and X-ES ruggedized 2.5 in. SATA SSD memory modules with high-reliability connectors designed to support up to 100,000 mating cycles
- Supports the XPort6193 and XPort6196 removable memory modules
- Toolless removal of storage modules

**Back Panel I/O Options**

- Two SATA ports
- Write protection
- Zeroize for declassification

**Thermal**

- The system is designed and tested to operate in ambient temperatures down to -40°C and in extreme high temperatures. Maximum operating temperature is dependent on configuration and usage. Contact X-ES for more information.

**Environmental**

Contact factory for appropriate configuration based on environmental requirements.

- Conformal coating available as an ordering option
- 0.1 g<sup>2</sup>/Hz (maximum), 1 hour per axis from 5 Hz to 2000 Hz vibration
- 40 g, 11 ms sawtooth shock
- Up to 95% humidity

