The XPand9011 provides an industry-leading combination of security, performance, and flexibility for a rackmount server. It features dual Intel® Xeon® E5-2600 family v4 (formerly Broadwell-EP) processors with a tightly coupled Xilinx Kintex® UltraScale™ security FPGA, two 40 Gigabit Ethernet ports, and six PCI Express Gen3-capable expansion sites.

The XPand9011 is designed and manufactured in the USA, using COTS components from trusted domestic supply chains. Supporting a standard 2U rackmount form factor with six PCI Express expansion slots, it is a true Open Systems Architecture (OSA) design. The XPand9011 also integrates ruggedization features that enable it to perform in environmentally challenging applications without modifications or enhancements.

X-ES Enterprise Linux (XEL) BSP is standard, please contact the factory for additional OS support options.
**Processor**
- Dual Intel® Xeon® E5-2600 v4 family processors (formerly Broadwell-EP)
- Default configuration utilizes E5-2648L v4 processors
- Up to 128 GB of DDR4-2400 ECC SDRAM across eight channels

**Front I/O**
- Two 40 Gigabit Ethernet ports
- Four 10/100/1000BASE-T Ethernet ports
- One FPGA 10/100/1000BASE-T Ethernet port
- One IPMI 10/100BASE-T Ethernet ports (one IPMC)
- Two USB 3.0 ports (can be disabled)
- Two USB 2.0 ports (can be disabled)
- Two RS-232/422/485 serial ports (can be disabled)
- DVD-ROM drive

**Internal Storage**
- Three 3.5 in. Hot Swap SATA drive bays
- One mSATA site capable of 6 Gb/s

**IPMI**
- PICMG 3.0 R3.0-based IPMI support

**PCI Express Expansion Sites**
- Two low-profile x16 PCI Express Gen3-capable interfaces
- Three low-profile x8 PCI Express Gen3-capable interfaces
- One low-profile x4 PCI Express Gen2-capable interface

**FPGA**
- Xilinx Kintex® UltraScale™ security FPGA (XCKU060 or XCKU095)
- 8 GB DDR4 ECC SDRAM
- External Gigabit Ethernet interface
- SATA interface (optional)
- 128 MB configuration flash
- Two x8 and one x4 PCI Express Gen3-capable interfaces to processor subsystem

**Physical Characteristics**
- 2U short depth rackmount server (17.7” deep)
- Air-cooled
- Dimensions: 17.7 in. (L) x 17.2 in. (W) x 3.5 in. (H)

**Environmental Requirements**
- Contact factory if your requirements are outside of our advertised levels.
- Operating temperature range of 0°C to 35°C
- Storage temperature of -40°C to +85°C ambient
- Conformal coating available as an ordering option for the motherboard

**Software Support**
- X-ES Enterprise Linux (XEL) BSP
- Contact factory for additional OS support

**Power**
- Redundant power supplies
- Power will vary based on configuration and usage. Please consult factory

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**XPand9011**
2U Rackmount Server supporting XAct1012