

XPand9320

Intel® Xeon® D-2800 Processor-Based 1U Rackmount Server with Quad 100GbE and PCI Express Expansion Site

- 1U rackmount server
- Supports dual Intel® Xeon® D-2800 series (formerly Eddy Lake) processors
- Integrated AMD (formerly Xilinx) Versal® Prime VM1402 security ACAP
- One x16 PCI Express Gen4-capable full-height full-length (FHFL) single-slot expansion site
- One OCP 3 expansion site with x16 PCI Express Gen4-capable interface
- Ruggedized design
- Up to 128 GB of DDR4 ECC SDRAM across four channels per socket, for a total of 256 GB
- Four 100 Gigabit Ethernet ports
- Two 10/100/1000BASE-T Ethernet ports
- Two FPGA 1000BASE-T Ethernet ports
- Two IPMC 10/100BASE-TX Ethernet ports
- Three USB 2.0 ports
- Four RS-232 serial ports
- Eight RS-232 ports via two quad UARTs on a USB-C hub
- Front panel removable storage via four E1.S bays (x4 Gen3-capable PCIe each)
- IPMI support
- Redundant power supplies
- X-ES Enterprise Linux (XEL) BSP for Xeon® D subsystems
- Linux Yocto BSP for Versal® subsystem
- Contact factory for additional OS support



XPand9320

The XPand9320 provides an industry-leading combination of security, performance, and flexibility for a rackmount server. It features dual Intel® Xeon® D-2800 series (formerly Eddy Lake) processors with a tightly coupled AMD (formerly Xilinx) Versal® Prime VM1402 security ACAP, and four 100 Gigabit Ethernet ports.

Supporting a standard 1U rackmount form factor with a PCI Express Gen4-capable expansion site, the XPand9320 is a true Open Systems Architecture (OSA) design. It also integrates ruggedization features that enable it to perform in environmentally challenging applications without modifications or enhancements.

X-ES Enterprise Linux (XEL) and Linux Yocto Board Support Packages (BSPs) are standard. Please contact the factory for additional OS support options.



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Processor

- Dual Intel® Xeon® D-2800 series (formerly Eddy Lake) processors
- Up to 128 GB of DDR4 ECC SDRAM across four channels per socket, for a total of 256 GB

Rear I/O

- Four 100 Gigabit Ethernet ports to QSFP cages
- Two 10/100/1000BASE-T Ethernet ports
- Two FPGA 1000BASE-T Ethernet ports
- Two IPMC 10/100BASE-TX Ethernet ports
- Three USB 2.0 ports
- Four RS-232 serial ports
- Eight RS-232 ports via two quad UARTs on a USB-C hub

Internal Storage

- Four E1.S bays (x4 Gen3-capable PCIe each)
- One 256 GB eMMC SSD per Intel CPU, one FPGA 256 GB eMMC SSD (three eMMCs total)

IPMI

- PICMG 3.0 R3.0-based IPMI support

PCI Express Expansion Sites

- One x16 PCI Express Gen4-capable full-height full-length (FHFL) single-slot expansion site
- One OCP 3 expansion site with x16 PCI Express Gen4-capable interface

FPGA

- AMD (formerly Xilinx) Versal® Prime VM1402 security ACAP
- 16 GB of LPDDR4 ECC SDRAM in two channels
- Two 1000BASE-T Ethernet ports
- 4 Gbit of QSPI FPGA configuration flash
- One x4 PCI Express Gen3-capable interface to each processor subsystem (two total)

Physical Characteristics

- 1U rackmount server (20 in. deep)
- Air-cooled
- Dimensions: 20 in. (L) x 17.43 in. (W) x 1.75 in. (H)

Environmental Requirements

Contact factory if your requirements are outside of our advertised levels.

- Operating temperature range of 0°C to 55°C (contact factory for details)
- 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 for Xeon® D subsystems
- Linux Yocto BSP for Versal® subsystem
- Contact factory for additional OS support

Power

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

