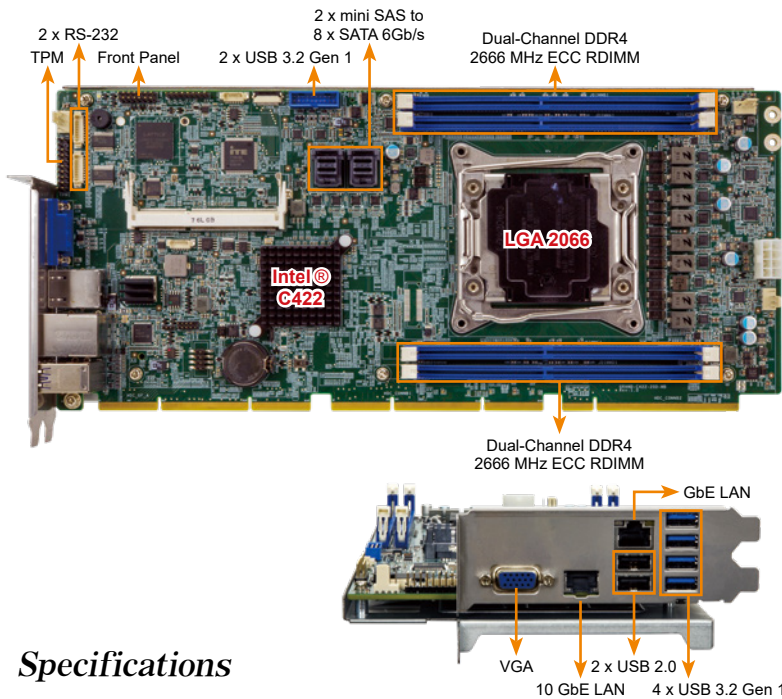


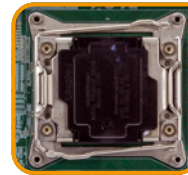
PEMUX-XEW1

Full-size PEMUX CPU Card supports LGA2066 Intel® Xeon® W CPU per, Intel® C422, DDR4 ECC RDIMM, IPMI VGA output, Aquantia 10GbE, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, M.2 and RoHS



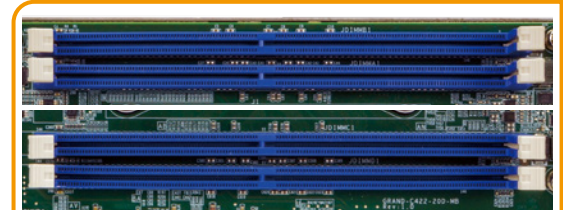
Specifications

- ◆ Form Factor
PEMUX Full-size CPU card (12 layers)
- ◆ CPU
LGA2066 socket supports Intel® Xeon W processor
- ◆ Chipset
Intel® C422
- ◆ Memory
Four 288-pin Dual-Channel DDR4 ECC RDIMM/LRDIMM supported up to 256GB
- ◆ BIOS
UEFI BIOS
- ◆ Super I/O
Fintek F81216D
- ◆ EC
iWDD
- ◆ Display Output
1 x VGA port (from IPMI)
- ◆ Ethernet
LAN1: 1 GbE NIC: Intel® i210-AT with NCSI support
LAN2: 10 GbE NIC: Aquantia AQC107
- ◆ External I/O Interface
2 x USB 2.0
4 x USB 3.2 Gen 1 (5Gb/s)
- ◆ Internal I/O Interface
1 x M.2 M Key (2280, PCIe Gen3 x4)
1 x USB DOM header
2 x mini SAS 8643 (for 8 x SATA 6Gb/s)
2 x RS-232 pin header
2 x USB 3.2 Gen 1 pin header
- ◆ Front Panel
1 x Front Panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ Audio
Supports by IEI AC-KIT-888S-R10 audio kit (2 x 5 pin)
- ◆ TPM
1 x TPM (2 x 10-pin)
- ◆ SMBus
1 x SMBus to backplane
- ◆ Expansion
56-Lane PCIe signal via golden finger
- ◆ Watchdog Timer
software Programmable support 1~255 sec. System reset
- ◆ Fan Connector
1 x 4-pin Smart fan connector (CPU fan)
2 x 4-pin Smart fan connector (System CPU fan)
- ◆ Power Supply
5V/12V, AT/ATX support
- ◆ Operating Temperature
-20°C ~ 40°C
- ◆ Operating Humidity
5% ~ 95%, non-condensing
- ◆ Dimensions
338.58 mm x 150.5 mm
- ◆ Weight
700g



LGA 2066

Support Intel® Xeon W series CPU



Four 288-pin DDR4 ECC RDIMM/LRDIMM Supported

Four 288-pin 2666MHz dual-channel DDR4 SDRAM ECC RDIMM / LRDIMM (system max.256GB) supports in IEI full-size server grade CPU card.



PEMUX can provide up to 56 lane PCIe signals to the backplane. With the maximization of PCIe lane signal quantity, we need the brand new pin define for supporting all signals pass through to the backplane, we called PEMUX design which defined by IEI.



TPM 2.0 Support



Features

- PEMUX full-size server / graphic grade solution
- LGA2066 socket supports Intel® Xeon W processor
- Four 288-pin Dual-Channel DDR4 ECC RDIMM/LRDIMM supports up to 256GB
- Supports IPMI VGA display
- Support M.2 M Key(2280, PCIe Gen3 x4)
- Intel® PCIe GbE Intel® i210-AT with NCSI support
- Aquantia AQC107 10 GbE NIC
- Supports RAID function via SATA 6Gb/s
- TPM 2.0 hardware security function supported by TPM module

Packing List

- 1 x PEMUX-XEW1 single board computer
- 1 x mini SAS to 4 SATA cable
- 1 x QIG

Ordering Information

Part No.	Description
PEMUX-XEW1-R10	Full-size PEMUX CPU Card supports LGA2066 Intel® Xeon® W C422, DDR4 ECC RDIMM/LRDIMM, VGA, Intel® PCIe GbE, Aquantia 10GbE, USB 3.2 Gen 1 (5Gb/s), USB 2.0, SATA 6Gb/s, HD Audio, IPMI and RoHS
32102-000100-200-RS	SATA power cable, MOLEX 8981-4M to SATA15P, 150MM
CF-2011B-RS	High performance LGA1355/1356/2011 cooler kit, 130W
32037-000600-100-RS	1 x mini SAS to 4 SATA Cable
32005-005000-100-RS	RS-232 cable, 150MM, P=1.25

PEMUX Backplane

Accelerate to The Future

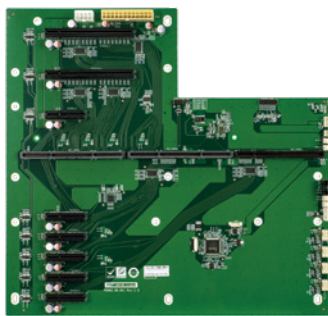
Server grade backplane accommodates multiple PCIe x8 and PCIe x4 add-on cards. It is specially designed for intensive AI computing applications such as deep learning and inference engine that requires more numbers of PCIe slot for accelerator cards. Given the multiple PCIe slots support, it provides a more efficiency solution for end-users.

Selection Guide

4U rack-mount chassis

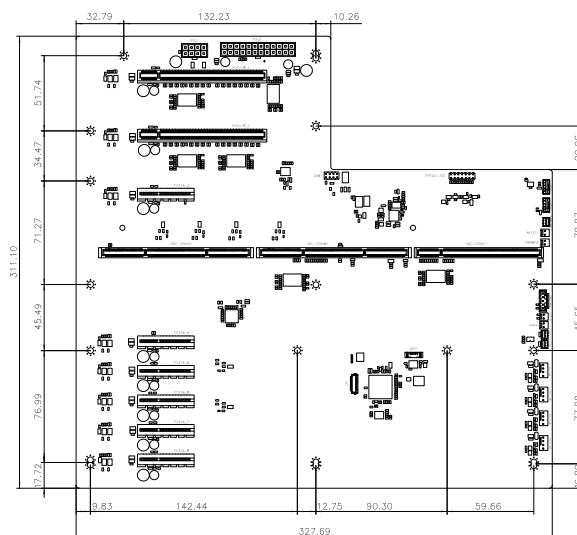
Model Name		PEMUX-DB-10S1	PEMUX-DB-8S1
Total Slots		11	9
PCIe Lanes	x16		2 (Gen 3.0)
	x8	4 (Gen 3.0)	
	x4	6 (Gen 3.0)	6 (Gen 3.0)
	x1		
PSU type		24+8pin ATX	24+8pin ATX
Chassis Option		RACK-360G RACK-3000G	RACK-360G RACK-3000G

PEMUX-DB-8S1-R10

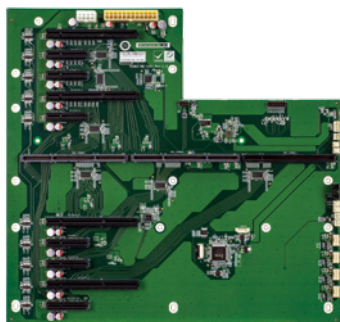


Ordering Information

PEMUX-DB-8S1-R10	1-Slot PEMUX backplane, 2 PCIe Gen 3.0 x16 w/ x16 slot, 6 PCIe Gen3.0 x4 w/ x4 slots, and RoHS
RACK-360G	4U 14-slot full-size rack-mount chassis
RACK-3000G	4U 14-slot full-size rack-mount chassis
41005-4223C2-00-RS	Rear card frame; black
41005-4222C3-00-RS	Rear card frame; white



PEMUX-DB-10S1-R10



Ordering Information

PEMUX-DB-10S1-R10	1-Slot PEMUX backplane, 4 PCIe Gen 3.0 x8 w/ x16 slot, 6 PCIe Gen3.0 x4 w/ x4 slots, and RoHS
RACK-360G	4U 14-slot full-size rack-mount chassis
RACK-3000G	4U 14-slot full-size rack-mount chassis
41005-4223C2-00-RS	Rear card frame; black
41005-4222C3-00-RS	Rear card frame; white

