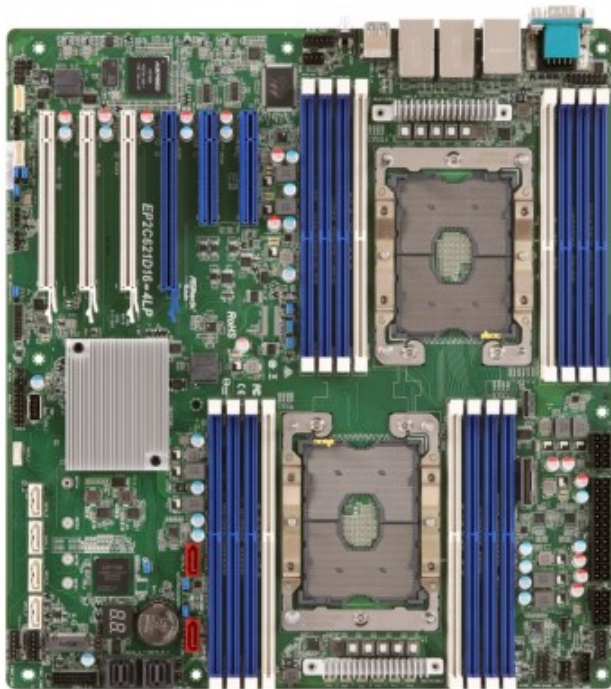


ASRock EP2C621D16-4LP, 2xSKT LGA3647, Intel Xeon Scalable, C621, 16xDIMM, SATA, NVMe, 1xM.2, 4xGbE, IPMI

Part number: EP2C621D16-4LP



Category	Server
Form Factor	EEB
Dimensions	12" x 13"
CPU Socket	LGA 3647 (Socket P)
# of CPU sockets	2
Supported CPU's	Intel Xeon Scalable Processors
Chipset	C621
Memory Type	DDR4 ECC RDIMM DDR4 ECC LRDIMM
Memory Speed	2933 MHz 2666 MHz 2400 MHz 2133 MHz
# of DIMM's	16
Max Memory Size	1024
Integrated GPU	ASPEED AST2500
# of PCIe x16 3.0	4
# of PCIe x8 3.0	2
# of USB Ports	4 x USB 3.0 (rear) 2 x USB 3.2 (header) 2 x USB 2.0 (header)
# of SATA Ports	6
# of SATA DOM power	2
# of NVMe ports	1
# of SAS Ports	2
# of 1GbE Ports	4 x RJ45
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2500
TPM	1 x TPM 2.0 17-pin Header

EP2C621D16-4LP

- EEB 12"x13"
- Supports 2nd Gen. Intel Xeon Scalable Processors / Intel Xeon Scalable Processors
- Supports DDR4 2933/2666/2400/2133 RDIMM/LR DIMM, Intel Optane™ DC Persistent Memory in memory mode (Cascade Lake only), 16 x DIMM slots
- Supports 14 x SATA3 6.0 Gb/s by INTEL C621(including 2x SATA DOM ports and 2x SATA switch w/1xM.2 NVME ports)

- Supports 4x PCIe3.0x16, 2x PCIe3.0x8

Specifications

Physical Status

Form Factor	- EEB
Dimensions	- 12"x13"

Processor System

CPU	- Supports 2 nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
Socket	- Dual Socket P
Chipset	- Intel C621

System Memory

Capacity	- 16 DIMM slots
Type	- Quad Channel memory technology - Support DDR4 2933/2666/2400/2133 RDIMM/LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
DIMM Size Per DIMM	- RDIMM: 32GB, 16GB, 8GB, 4GB - LRDIMM: 64GB, 32GB
Voltage	- 1.2V

Expansion Slot

PCIe 3.0 x 16	- 4 slots
PCIe 3.0 x 8	- 2 slots
M.2	- NVMe: 1 x M.2 slot

Storage

SATA Controller	- Intel C621 : 14 x SATA3 (including 2x SATA DOM ports and 2x SATA which switch w/1xM.2 ports)
OCuLink for U.2	- 3 (Slimline x8 from CPU1, OCuLink x4 from CPU1)

Ethernet

Interface	- Gigabit LAN 10/100/1000 Mb/s
LAN Controller	- 4 x RJ45 GLAN by Marvell 88E1543 - 1 x RJ45 Dedicated IPMI LAN port - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 Supports NCSI

Management

BMC Controller	- ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0 with Ikmv vMedia support
IPMI Dedicated GLAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog - NMI

Graphics

Controller	- ASPEED AST2500
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VRAM - DDR4 16MB

Rear Panel I/O

VGA Port - 1 x D-Sub

USB 3.2
Gen1 Port - 4

Lan Port - 4+ 1 (IPMI 2.0)
- LAN Ports with LED (ACT/LINK LED and SPEED LED)

Serial Port - 1 x COM port

Internal Connector

SATA DOM - 2 (SSATA)

M.2 - 1 (M key 2230/224/22260/2280, supports PCIe(x4)/SATA)

Auxiliary
Panel
Header - 1 (includes chassis intrusion, location button & LED, front LAN LED)

TPM Header - 1

IPMB
Header - 1

VGA Header - 1

Buzzer - 1

Fan Header - 2x CPU Fan (4-pin), 4x system Fan (6-pin)

ATX Power - 1 (24-pin) + 2 (8-pin)

USB 3.2
(Gen1)
Header - 1 (support 2 USB 3.0)

Type A USB
2.0 Port - 1

System BIOS

BIOS Type - 128Mb AMI UEFI Legal BIOS

BIOS
Features - Plug and Play (PnP)
- ACPI 2.0 Compliance Wake Up Events
- SMBIOS 2.8 Support
- ASRock Rack Instant Flash

Hardware Monitor

Temperature - CPU Temperature Sensing
- System Temperature Sensing

Fan - CPU/Rear/Front Fan Tachometer
- CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)
- CPU/Rear/Front Fan Multi-Speed Control

Voltage - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, 1.05V_PCH, +BAT,
3VSB, 5VSB

Support OS

OS	Microsoft® Windows®
	- Server 2012 R2 (64 bit)
	- Server 2016 (64 bit)
	Linux
	- RedHat Enterprise Linux Server 6.8 (64 bit) / 7.4 (64 bit)
	- CentOS 6.8 (64 bit) / 7.4 (64 bit)
	- SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP3 (64 bit)
	- Ubuntu 16.04 (64 bit) / 18.04 (64 bit)
	- FreeBSD 11.1 (64 bit)
	Virtual
- VMWare® ESXi 6.5 u1	
- Win hyper-V Server 2012 R2	

Environment

Temperature Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C

The specification is subject to change without notice in advance. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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<https://www.superstorage.pl/asrock-ep2c621d16-4lp-2xskt-lga3647-intel-xeon-scalable-c621-16xdimm-sata-nvme-1xm2-4xgbe-ipmi-p-4779.html>