P8SCA

Intel C612 Single-Socket Server Motherboard

The P8SCA is a single-socket server motherboard based on the Intel C612 chipset and Grantley platform. It supports Intel Xeon E5-1600 v3/v4 and E5-2600 v3/v4 processors, with eight DDR4 memory slots and extensive network and storage connectivity. ODM customization is available for customer-specific requirements.



- Intel C612 chipset supports one Intel Xeon E5-1600 v3/v4 or E5-2600 v3/v4 processor (Grantley: Haswell/Broadwell).
- Eight DDR4 ECC RDIMM/LRDIMM slots support four-channel memory and speeds up to 2400MHz.
- Memory capacity: up to 256GB RDIMM or 1TB 3DS LRDIMM.
- Four PCIe 3.0 x8 interfaces use x16 physical slots for flexible expansion.
- Ten SATA3 6Gb/s ports support RAID 0, 1, 5 and 10.
- Two 1GbE RJ-45 ports, two 10GbE SFP+ ports, and a dedicated 1GbE IPMI port.
- IPMI 2.0 supports SOL, KVM over IP, virtual media and device health monitoring.

01 Specifications

System Controller	CPU	1 × Socket R3 (LGA 2011); Intel Xeon E5-1600 v3/v4 and E5-2600 v3/v4; Grantley (Haswell/Broadwell); TDP 160W; QPI 9.6 GT/s
	Chipset / BIOS	Intel C612 chipset; AMI UEFI BIOS
Memory	Type / Slots	8 × DDR4 ECC RDIMM/LRDIMM slots; four-channel memory
	Capacity / Speed	4GB/8GB/16GB/32GB modules; up to 256GB RDIMM or 1TB 3DS LRDIMM; 2400/2133MHz
Network	GbE LAN	2 × RJ-45 GbE; Intel I210; 10/100/1000Mbps
	10GbE LAN	2 × SFP+; Intel 82599ES dual-port controller; 10/1GbE
	IPMI Management	1 × standard RJ-45; 10/100/1000Mbps
I/O Ports	Rear I/O	2 × USB 3.0; 2 × USB 2.0; VGA; COM; UID switch with LED; 2 × GbE RJ-45; 2 × SFP+; 1 × IPMI RJ-45
	Onboard I/O	1 × TPM header and 1 × TPM socket; ATX 24+8+4-pin power; 1 × PMBus interface
	Onboard I/O	2 × USB 3.0 headers; 4 × USB 2.0 headers; 1 × USB 2.0 Type-A; 7 × 4-pin fan headers; serial header; chassis intrusion header
Storage	SATA	10 × SATA3 6Gb/s (6 × iSATA + 4 × sSATA); RAID 0, 1, 5, 10
Expansion	PCIe Slots	4 × PCIe 3.0 x8 interfaces (x16 physical slots)
Display	Graphics / Interface	ASPEED AST2400 BMC; 1 × VGA
Product Dimensions	Size	12.01 × 9.96 in (30.51 × 25.29cm)
Temperature / Humidity	Operating Temperature	10°C to 35°C
	Storage Temperature	–40°C to 70°C
	Operating Humidity	8% to 90% RH, non-condensing
	Storage Humidity	5% to 95% RH, non-condensing

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Platform	Chipset	Intel C612
Processor	CPU	Intel Xeon E5-1600 v3/v4; E5-2600 v3/v4
Memory	Type / Capacity	8 × DDR4 ECC RDIMM/LRDIMM; up to 1TB
Dimensions	Size	12.01 × 9.96 in (30.51 × 25.29cm)

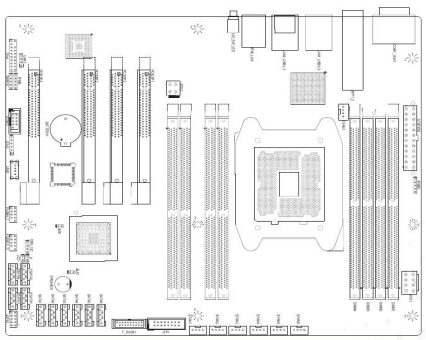
02 Product View





COM · VGA · USB · SFP+ · LAN · IPMI · UID + LED

03 Dimensions



Product Selection

Model	Configuration
P8SCA-N4I-1	Neutral; single Intel Xeon E5-1600 v3/v4 or E5-2600 v3/v4; C612; 8 × DIMM; 2 × 10GbE SFP+; 2 × 1GbE RJ-45; IPMI
P8SCA-N4I-2	Neutral; single Intel Xeon E5-1600 v3/v4 or E5-2600 v3/v4; C612; 8 × DIMM; 2 × 1GbE RJ-45; IPMI

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