P8DRA-N4I

Intel C612 Dual-Socket Server Motherboard

The P8DRA-N4I is a dual-socket server motherboard based on the Intel C612 chipset and Grantley platform. It supports Intel Xeon E5-2600 v3/v4 processors, with eight DDR4 memory slots, PCIe expansion and multiple storage options. ODM customization is available for customer-specific requirements.



- Intel C612 chipset supports two Intel Xeon E5-2600 v3/v4 processors (Grantley: Haswell/Broadwell).
- Eight DDR4 ECC RDIMM/LRDIMM/3DS LRDIMM slots support four-channel memory per CPU and speeds up to 2400MHz.
- Supports up to 512GB RDIMM or 1TB 3DS LRDIMM memory.
- Five PCIe 3.0 expansion slots provide flexible expansion.
- Ten SATA3 6Gb/s ports support RAID 0, 1, 5 and 10.
- Four Intel I210 GbE RJ-45 ports and a dedicated 1GbE IPMI port.
- Two DOM power connectors and IPMI 2.0 management with SOL, KVM over IP, virtual media and health monitoring.

01 Specifications

System Controller	CPU	2 × Socket R3 (LGA 2011); Intel Xeon 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/3DS LRDIMM; four-channel per CPU; 2400/2133/1866/1600MHz
	Capacity	Up to 512GB RDIMM or 1TB 3DS LRDIMM
	Module Sizes	RDIMM: 8/16/32/64GB; 3DS LRDIMM: 8/16/32/64/128GB
Network	GbE LAN	4 × RJ-45 GbE; Intel I210; 10/100/1000Mbps
	IPMI Management	1 × standard RJ-45; 10/100/1000Mbps
Storage	SATA	10 × SATA3 6Gb/s (6 × iSATA + 4 × sSATA); RAID 0, 1, 5, 10
	DOM	2 × reserved DOM drive power connectors
Expansion	PCIe Slots	1 × PCIe 3.0 x16; 1 × PCIe 3.0 x8 (x16 slot); 3 × PCIe 3.0 x8
I/O Ports	Rear I/O	2 × USB 3.0; 2 × USB 2.0; VGA; COM; UID switch with LED; 4 × 1GbE RJ-45; 1 × IPMI RJ-45
	Onboard I/O	1 × TPM header; ATX 24+8+8-pin power; 1 × PMBus interface
	Onboard I/O	2 × USB 3.0 headers; 2 × USB 2.0 headers; 1 × USB 3.0 Type-A
	Onboard I/O	8 × 4-pin fan headers; serial header; chassis intrusion header
Display	Graphics / Interface	ASPEED AST2400 BMC; 1 × VGA
Product Dimensions	Size	12.01 × 10.43 in (30.5 × 26.5cm)
Temperature / Humidity	Operating	10°C to 35°C; 8% to 90% RH, non-condensing
	Storage	−40°C to 70°C; 5% to 95% RH, non-condensing

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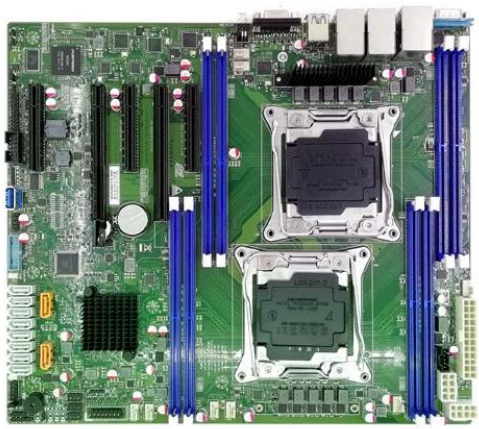
Platform	Chipset	Intel C612
Processor	CPU	2 × Intel Xeon E5-2600 v3/v4
Memory	Type / Capacity	8 × DDR4 RDIMM/LRDIMM; up to 1TB
Dimensions	Size	12.01 × 10.43 in (30.5 × 26.5cm)

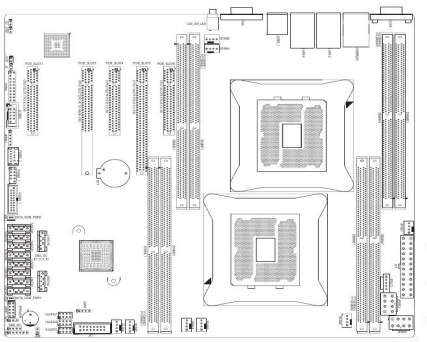
02 Product View





COM · VGA · USB 2.0/3.0 · LAN1-4 · IPMI · UID + LED

03 Dimensions



Product Selection

Model	Configuration
P8DRA_N4I	Neutral; dual Intel Xeon E5-2600 v3/v4; C612; 8 × DIMM; 4 × GbE RJ-45; IPMI

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