EPC612D4I

- Mini ITX 6.7" x 6.7"
- Socket LGA 2011 R3 Intel Xeon processor E5-1600/2600 v3 /v4 series
- Supports Quad Channel DDR4 2400/2133/1866/1600 ECC SO-DIMM 4 x DIMM slots
- Supports 4 SATA3 by C612
- Supports 1 x PCIe 3.0 x16
- Integrated IPMI 2.0 with KVM and Dedicated LAN (RTL8211E)
- Supports Intel Dual GLAN (Intel i210 + Intel i217)

RED HAT ENTERPRISE LINUX 7

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Specifications

MB Physical Status	
Form Factor	- Mini ITX
Dimensions	- 6.7" x 6.7" (17.02 cm x17.02 cm)
Processor System	
CPU	- Intel® Xeon® processor E5-1600/2600 v3/v4 series* *BIOS version 2.0 or above is required for v4 series.
Socket	- Single Socket LGA 2011 R3* *Please use narrow type CPU Cooler
Chipset	- Intel C612
System Memory	
Capacity	- 4 DIMM slots
Type	- Quad Channel memory technology - Supports DDR4 2400*/2133**/1866/1600 ECC SO-DIMM *Only E5-2600 V4 CPUs support DDR4 2400. **2133 support one DIMM per channel.
DIMM Size Per DIMM	- ECC SO-DIMM: 16GB, 8GB, 4GB
Voltage	0.9V - 1.5V
Expansion Slot	
PCIe 3.0 x 16	- 1 slot
Storage	
SATA Controller	- Intel® C612: 4 x SATA3 6Gb/s, support Intel® RSTe 4.0 RAID 0, 1, 5,10
Ethernet	
Interface	- 1000 /100 /10 Mbps
LAN Controller	- 2 x RJ45 by Intel® i210 + Intel® i217LM - 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 * Note: With Intel® i217LM LAN chip on board, the LAN Teaming function will be limited to below 3 modes: Intel® Active Management Technology (Intel® AMT) Enabled – Adapter Fault Tolerance (AFT), Switch Fault Tolerance (SFT), and Adaptive Load Balancing (ALB) teams.
Management	
BMC Controller	- ASPEED AST2400
IPMI Dedicated GLAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog - NMI

Graphics

Controller	- ASPEED AST2400
VRAM	- DDR3 16MB

Rear Panel I/O

VGA Port	- 1 x D-Sub
USB 3.1 Gen1 Port	- 2
Lan Port	- RJ45: 2 + 1 (IPMI) - LAN Ports with LED (ACT/LINK LED and SPEED LED)
UID Button/UID LED	- 1

Internal Connector

Auxiliary Panel Header	- 1 (include chassis intrusion, location button & LED, front LAN LED, and system fault LED)
TPM Header	- 1
IPMB Header	- 1
Fan Header	- 1x CPU Fan, 4x system Fan (4-pin)
ATX Power	- 1 (24-pin) + 1 (8-pin)
USB 3.1 (Gen1) Header	- 1 (support 2 USB 3.0)
USB 2.0 Header	- 1 (support 2 USB 2.0)
Type A USB 3.1 (Gen1) Port	- 1
BMC_SMB Header	- 1

System BIOS

BIOS Type	- 128Mb AMI UEFI Legal BIOS
BIOS Features	- Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8.0 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, +1.5V_PCH, +BAT, 3VSB, 5VSB

Support OS

OS	Microsoft® Windows® - Server 2008 R2 SP1 (64 bit) - Server 2012 (64 bit) - Server 2012 R2 (64 bit) - Server 2016 (64 bit) Linux - RedHat Enterprise Linux Server 6.5 (32 / 64 bit) - CentOS 5.10 / 6.5 (32 / 64 bit) - SUSE Enterprise Linux Server 11 SP3 (32 / 64 bit) - FreeBSD 9.2 (32 / 64 bit) - Fedora core 19 (64 bit) - Ubuntu 12.04.2 (64 bit) / 12.10 (64 bit) Virtual - VMWare® ESXi 5.5

Environment

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

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