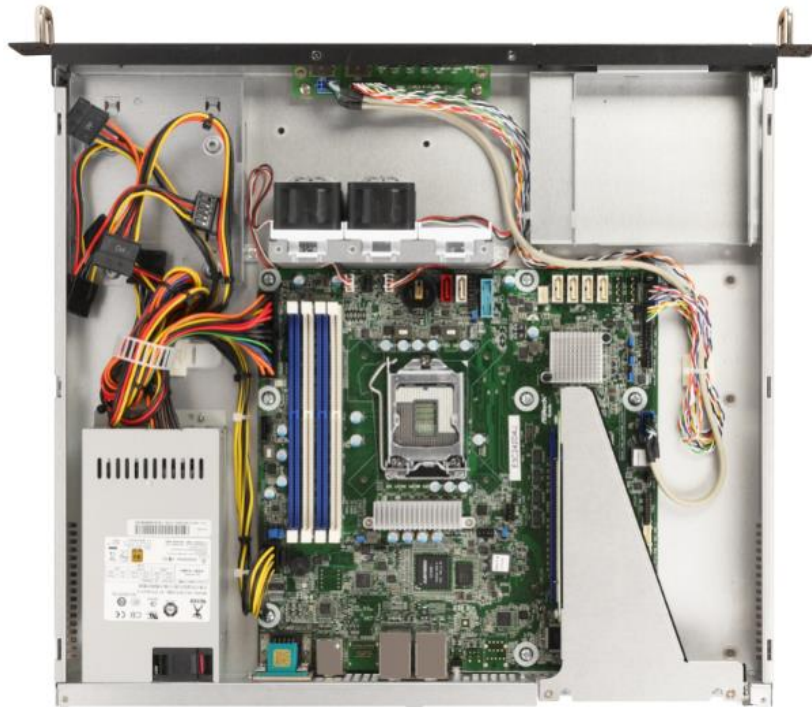
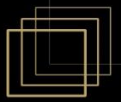


## 1U2LW-C242



### Product Brief

- 1U Rackmount with 315W PSU
- Supports Intel® Xeon® E-2100 Processors
- Supports internal 2 x 3.5" HDD or 1x3.5" HDD + 1x 2.5" HDD , external: Slim ODD x1
- Supports 1x PCIe 3.0 x16
- Supports Intel® i210 \*2
- ASPED 2500 for BMC controller, Realtek RTL8211E for dedicated IPMI GLAN



## Product Specifications

System	
Form Factor	-1U Rackmount
Chassis Model	-1U2LW
Dimensions	-394 x 482.6 x 44.4 mm (15.5" x 19" x 1.75")
Support MB	-E3C242D4U(mATX, 9.6" x 9.6")
Internal Drive Bay	
Drive Bay	-2 Bay 3.5" SATA HDD (6Gb/s)
Power Supply	
Type	-Single PSU
Output Watts	-315W
Efficiency	-Gold
System Fan	
Fan	-40 x 28 mm PWM Easy-Swap Fans x 2
Expansion Slot	
PCIECard	- Rear : 1 x single-width x16 card (by Riser card)



MB Physical Status	
Form Factor	- mATX
Dimensions	-9.6" x 9.6" (24.4 cm x24.4 cm)
Processor System	
CPU	-Supports Intel® Xeon® E-2100 Processors
Chipset	-Intel® C242
System Memory	
Capacity	- 4 x 288-pin DDR4 DIMM slots - Support up to 64GB DDR4 ECC/non-ECC UDIMM
Type	- Dual Channel DDR4 memory technology - Supports DDR4 ECC/non-ECC UDIMM (client O.S only)
DIMM Size Per DIMM	-ECC and non-EDD UDIMM : 4GB, 8GB, 16GB
DIMM Frequency	-Non-ECC UDIMM: 1600/1866/2133/2400/2666 MHz - ECC UDIMM: 1600/1866/2133/2400/2666 MHz
Expansion Slot	
PCIe 3.0 x16	-SLOT6: Gen3 x16 link, auto switch to x8 link if SLOT4 is occupied
PCIe 3.0 x8	-SLOT4: Gen3 x8 link
PCIe 3.0 x4	-SLOT5: Gen3 x4 link
Storage	
SATA Controller	E3C242D4U: Intel® C242: 6x SATA3 6Gb/s (SATA0-5, SATA0 supports SATA DOM, and is shared with M.2(PCIe3.0(x4))/ SATA3)
Ethernet	
Interface	-1000 /100 /10 Mbps
LAN	-2 x RJ45 GLAN by Intel® i210
	- 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 Dedicated GLAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog
	- NMI
Graphics	
Controller	-ASPEED AST2500
VRAM	-DDR4 32MB
Rear Panel I/O	
VGA Port	-1 x D-Sub
USB 3.1 Port	-E3C242D4U: 2 (Gen2), 2(Gen1)
Lan Port	- 2 x RJ45 Gigabit Ethernet LAN ports - 1 x RJ45 Dedicated IPMI LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED)
UID Button/LED	-1

Serial port	-1
<b>Internal Connector</b>	
Auxiliary Panel Header	-1 (include chassis intrusion , location button & LED , front LAN LED, event log LED)
M.2	-1
SATA DOM	-1(share with M.2)
TPM Header	-1
IPMB Header	-1
COM Header	-N/A
80 debug port LED	E3C242D4U: N/A
Front Panel	-1 (RST, PWRBTN, HDDLED, PWRLED)
Fan Header	-6(1CPU/3Front/2Rear)
ATX Power	-1x (24-pin) + 1x (8-pin)
Speaker	-1(4pin)
TR1	-1
Buzzer	-1
USB 3.0 Header	-1 (support 2 USB 3.0)
USB 2.0 Header	-1 (support 2 USB 2.0)
M.2	-1(2230/2242/2260/2280, Supports PCIE3.0(X4)/SATA3)
ME/SPS Recovery	-1
Clear CMOS	-1 (Short pin)
BMC_SMB1	-1
PSU_SMB1	-1
SGPIO	-2
NMI Button Header	-1
<b>System BIOS</b>	
BIOS Type	-256Mb 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
<b>Hardware Monitor</b>	
Temperature	-CPU Temperature Sensing -System Temperature Sensing -System Inlet 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, VCCM, VCCIO, VCCSA, VCCST_SFR, V1.0M, 3VSB, 5VSB, VBAT
<b>Support OS</b>	
OS	Microsoft® Windows® - Server 2016 (64 bit) Linux® - RedHat Enterprise Linux Server 6.9 (64 bit) / 7.4 (64 bit) - SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP3 (64 bit) - Ubuntu 15.10 (64 bit) / 16.04 (64 bit) *Please refer to our website for the latest OS support list.
<b>Environment</b>	
Temperature	-Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C