

# ASRock 4U18N-C252/2T, Rack 4U, 18-node system, UP, Intel E-2300, Int. drive bays, 2x10GbE, Red. PSU, IPMI

Part number: 4U18N-C252/2T



Chassis Form Factor	Rack 4U
# of systems (nodes)	18
CPU Socket	LGA 1200 (Socket H5)
# of CPU sockets (per node)	1
Supported CPU's	Intel Xeon E-2300 Intel Pentium 10th Gen
Chipset	Intel C252
Memory Type	DDR4 ECC UDIMM DDR4 non-ECC UDIMM
Memory Speed	3200 MHz 2933 MHz 2666 MHz
# of DIMM's (per node)	4
Max Memory Size (per node)	128 GB
Integrated GPU	Aspeed AST2500
# of 2.5 NVMe bays (per node)	2
# of M.2 2280 (per node)	2
# of 10GbE Ports (per node)	2 x RJ45
Network Controllers	Intel X710-AT2
Integrated BMC	IPMI Dedicated RJ45
BMC chip	Aspeed AST2500
Power Supply	Redundant 1+1
PSU Wattage	1600 W
PSU Certification	80+ Platinum
Chassis Dimensions	950 x 438 x 176 mm

## 4U18N-C252/2T

- 4U chassis with 18 nodes support 36 x 2.5" NVMe SSD, 1600W Redundant (3+1) PSU
- Supports Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® series processors
- 4 DIMM slots (2DPC), supports ECC/non-ECC UDIMM
- Supports 2 x 2.5" NVMe SSD per node
- Supports 2 M.2 per node
- Integrated IPMI 2.0 and KVM with Dedicated LAN
- 2x RJ45 (10GbE) by Intel® X710-AT2

## Specifications

### System

Form Factor	4U Rackmount
Chassis Model	4U18N
Dimensions	950 x 438 x 176 mm
Support MB	E3C252D4ID-2T
<b>Front Panel</b>	
Buttons	UID, Power, RESET
LEDs	System Fail, LAN1/LAN2, UID, Power
I/O Ports	2 RJ45(10GbE) by Intel® X710-AT2 2 Type-A (USB 3.2 Gen1) 1 DB15
IPMI LAN	1 dedicated IPMI
<b>External Drive Bay / Storage</b>	
Internal Side	2 Fixed 2.5" NVMe (PCIe4.0 x4) /SATA drive bays (BTO) 1 M-key* (PCIe4.0 x4); support 2280 form factor [CPU] 1 M-key (PCIe3.0 x4); support 2280 form factor [PCH] *M.2 from CPU will not function when installing 10th Gen Intel® Pentium® Series Processors
<b>Power Supply</b>	
Type	4 (3+1) RPSU
Output Watts	1600W
Efficiency	Platinum
AC Input	100-240V, 50/60Hz
<b>System Fan</b>	
Middle	80x80mm x5
Fail LED	Abnormal(DC on): LED ON (Solid Red) Normal: LED OFF
<b>Processor System</b>	
CPU	Supports Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® series processors
Socket	Single Socket H5 (LGA1200)
Chipset	Intel® C252
<b>System Memory</b>	
Supported DIMM Quantity	4 DIMM slots (2DPC)
Supported Type	Supports DDR4 288-pin ECC/non-ECC UDIMM
Max. Capacity per DIMM	ECC/non-ECC UDIMM: up to 32GB
Max. DIMM Frequency	ECC/non-ECC UDIMM: max. 3200*MHz *Up to DDR4 2666MHz when installing 10th Gen Intel® Pentium® Series Processors
Voltage	1.2V
<b>TPM</b>	
TPM support	By optional accessory
<b>Server Management</b>	
BMC Controller	ASPEED AST2500
IPMI Dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN
<b>Graphics</b>	
Controller	ASPEED AST2500
VRAM	DDR4 16MB

Output	1 DB15 (VGA)
<b>System BIOS</b>	
BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
BIOS Features	Plug and Play, ACPI 6.2 compliance wake up events, SMBIOS 3.3, ASRock Rack instant flash
<b>Hardware Monitor</b>	
Temperature	CPU,MB,TR1 sensing
Fan	Middle Fan Tachometer Middle Fan Multi-Speed Control
Voltage	VCORE,VCCSA,VCCM,VCCST_SFR, 3.3V, 5V, 12V, +1.05V_PCH_AUX,+BAT, 3VSB, 5VSB,VCCIO,+2.5V_VPP
<b>Environment</b>	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	- Non operation humidity: 20% ~ 90% ( Non condensing)

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-4u18n-c2522t-rack-4u-18-node-system-up-intel-2300-int-drive-bays-2x10gbe-red-psu-ipmi-p-5798.html>