

# ASRock D2143D4I2-2T, Intel Xeon D-2143, SoC, Mini-ITX, 4xDIMM, SATA, 2xM.2, 2x10GbE, IPMI

Kod producenta: D2143D4I2-2T



|                   |                                   |
|-------------------|-----------------------------------|
| Category          | Embedded                          |
| Form Factor       | Mini-ITX                          |
| Dimensions        | 6.7" x 6.7"                       |
| CPU Installed     | Intel Xeon D-2143                 |
| # of CPU sockets  | 1                                 |
| Chipset           | System on Chip                    |
| Memory Type       | DDR4 ECC RDIMM<br>DDR4 ECC LRDIMM |
| Memory Speed      | 2666 MHz<br>2400 MHz<br>2133 MHz  |
| # of DIMM's       | 4                                 |
| Max Memory Size   | 128                               |
| Integrated GPU    | ASPEED AST2500                    |
| # of PCIe x16 3.0 | 1                                 |
| # of USB Ports    | 2 x USB 3.2 (rear)                |
| # of 10GbE Ports  | 2 x RJ45                          |
| Integrated BMC    | IPMI Dedicated RJ45               |
| BMC chip          | ASPEED AST2500                    |

## D2143D4I2-2T

- Supports Intel Xeon D-2143
- Support 4 x DDR4 2133/2400/2666\* R DIMM, LR DIMM; 1DPC
- 4 x OCulinks support PCIe3.0 x4; 2 of OCulinks support 4 SATAIII 6Gb/s each
- 1 x PCIe x 16 slot
- Integrated IPMI 2.0 with KVM and Dedicated LAN (RTL8211E)
- Supports 12V DC-IN or ATX Power Source

### Specyfikacja

| Parametry płyty głównej |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Standard                | - Mini-ITX                                                                    |
| Wymiary                 | - 6.7" x 6.7" (17.02 cm x 17.02 cm)                                           |
| Procesor                |                                                                               |
| CPU                     | - Supports Intel® Xeon® D-2143 Processors                                     |
| Pamięć operacyjna       |                                                                               |
| Pojemność               | - 4 x 288-pin DDR4 DIMM slots<br>- Support up to 256GB DDR4 ECC RDIMM/LR DIMM |

|                                      |                                                                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rodzaj                               | - Quad Channel DDR4 memory technology<br>- Support DDR4 ECC RDIMM/LR DIMM                                                                                                                             |
| DIMM Size Per DIMM                   | - R/LR DIMM: 32GB, 16GB, 8GB, 4GB                                                                                                                                                                     |
| DIMM Frequency                       | - ECC RDIMM: 2133/2400/2666 MHz<br>- LR DIMM: 2133/2400/2666 MHz<br><br>*the max speed may vary based on SoC SKU                                                                                      |
| Napięcie                             | - 1.2V                                                                                                                                                                                                |
| <b>Sloty rozszerzeń</b>              |                                                                                                                                                                                                       |
| PCIe 3.0 x 16 - SLOT7: Gen3 x16 link |                                                                                                                                                                                                       |
| <b>Magazynowanie</b>                 |                                                                                                                                                                                                       |
| Kontroler SATA                       | - Intel® Xeon® D-2143: 8 x SATAIII 6.0 Gb/s from 2 x OCulink, 2 x SATAIII 6.0 Gb/s from M.2 M-key                                                                                                     |
| M.2 slot                             | - 1x M-Key (PCIe3.0 x4 or SATAIII 6.0 Gb/s); Supports 2242 form factor<br>- 1x M-Key (PCIe3.0 x4 or SATAIII 6.0 Gb/s); Supports 22110/2280 form factor                                                |
| <b>Ethernet</b>                      |                                                                                                                                                                                                       |
| Interfejs                            | - 10000/1000 Mbps                                                                                                                                                                                     |
| Kontroler LAN                        | - 2 x RJ45 10GLAN by Intel® X557-AT2<br>- Supports Wake-On-LAN<br>- Supports Energy Efficient Ethernet 802.3az<br>- Supports Dual LAN with Teaming function<br>- Supports PXE<br>- LAN1 Supports NCSI |
| <b>Zarządzanie</b>                   |                                                                                                                                                                                                       |
| Kontroler BMC                        | - ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0 with ikvm and vMedia support                                                                                                  |
| IPMI Dedicated GLAN                  | - 1 x Realtek RTL8211E for dedicated management LAN                                                                                                                                                   |
| Funkcje                              | - Watch Dog<br>- NMI                                                                                                                                                                                  |
| <b>Grafika</b>                       |                                                                                                                                                                                                       |
| Kontroler                            | - ASPEED AST2500                                                                                                                                                                                      |
| <b>Tylny panel I/O</b>               |                                                                                                                                                                                                       |
| Port VGA                             | - D-sub x 1                                                                                                                                                                                           |
| Port USB 3.0                         | - 2                                                                                                                                                                                                   |
| Port Lan                             | - 2x 10GLAN RJ45(by Intel® X557-AT2 )<br>- 1 x RJ45 Dedicated IPMI LAN port<br>- LAN Ports with LED (ACT/LINK LED and SPEED LED)                                                                      |
| UID Button/UID LED                   | - 1                                                                                                                                                                                                   |
| <b>Złącza wewnętrzne</b>             |                                                                                                                                                                                                       |
| Port śledź COM                       | - 1                                                                                                                                                                                                   |
| OCuLink                              | - 4 x OCulinks support PCIe3.0 x4; 2 of OCulinks support 4 SATAIII 6Gb/s each                                                                                                                         |
| Złącze panelu AUX                    | - 1 (include chassis intrusion, 2 front LAN LED, System LED)                                                                                                                                          |
| Złącze TPM                           | - 1x (13pin)                                                                                                                                                                                          |

|                      |                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------|
| Złącze IPMB          | - 1                                                                                     |
| Złącze wentylatorów  | - 1x CPU Fan, 2x system Fan (1 front, 1 rear) (build in CPU active fansink)             |
| ATX Power            | - 1x (4-pin) + 1x (8-pin) support 12V DC-IN (DC-IN mode power budget is up to 432W)     |
| SATA Power Connector | - 1 (for DC-IN mode)<br>*Caution: Misconnection may permanently damage the motherboard. |

## BIOS

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| Rodzaj BIOS | - 256Mb AMI UEFI Legal BIOS                                                                                       |
| Cechy BIOS  | - Plug and Play (PnP)<br>- ACPI 1.1 Compliance Wake Up Events<br>- SMBIOS 2.3.1 Support<br>- ASRock Instant Flash |

## Hardware Monitor

|             |                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperatura | - CPU/PCH/DDR/LAN/Storage Temperature Sensing<br>- MB/Card side/TR1 Temperature Sensing                                                                 |
| Wentylator  | - CPU/Rear/Front Fan Tachometer<br>- CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature)<br>- CPU/Rear/Front Fan Multi-Speed Control |
| Napięcie    | - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, +1.1V,+1.0V, +BAT, 3VSB, 5VSB                                                                  |

## Obsługiwane systemy

|                   |                                                                                                                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System operacyjny | Microsoft® Windows:<br>- Server 2012 R2 (64 bit)<br>- Server 2016 (64 bit)                                                                                                                                                                                                        |
|                   | Linux:<br>- RedHat Enterprise Linux Server 6.8 (64 bit) / 7.4 (64 bit)<br>- CentOS 6.8 (64 bit) / 7.4 (64 bit)<br>- SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP3 (64 bit)<br>- Ubuntu 16.04 (64 bit) / 18.04 (64 bit)<br>- Fedora 26 (64 bit)<br>- FreeBSD 11.2 (64 bit) |
|                   | Virtual:<br>- VMWare® ESXi 6.5 u1<br>- Citrix XenServer 7.2<br>- Win hyper-V Server 2016                                                                                                                                                                                          |
|                   | * Please refer to our website for the latest OS support list. *On Ubuntu 16.04 (64 bit) / 18.04 (64 bit) system, Intel® Raid mode only supports UEFI BOOT.                                                                                                                        |

## Środowisko

|             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| Temperatura | Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C |
|-------------|------------------------------------------------------------------------------|

Specyfikacja może ulec zmianie bez wcześniejszego powiadamiania. Marka i nazwy produktów są znakami towarowymi ich właścicieli. Działanie konfiguracji innych niż wynikające ze specyfikacji nie jest gwarantowane.

Strona firmowa produktu:

<https://www.superstorage.pl/asrock-d2143d4i2-2t-intel-xeond-2143-soc-mini-itx-4xdimm-sata-2xm2-2x10gbe-ipmi-p-4832.html>

