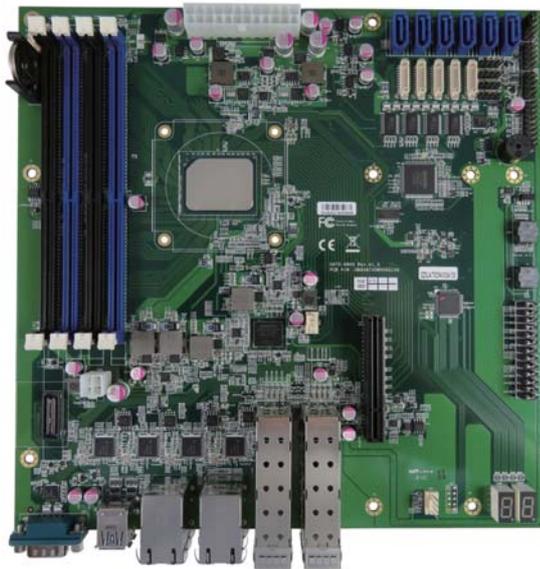# UATX-DNV0 Series

Industrial Motherboard in Micro-ATX Form Factor
with Intel® Denverton Processors



- • Intel® Denverton Processor, Atom™ C3000 Series
- • 4x DDR4 UDIMM / RDIMM Socket
- • up to 4x RJ-45 GbE LAN for copper Ethernet connection
- • 4x SFP+ 10GbE LAN for optical Ethernet connection
- • 2x USB3.0, 2x USB2.0 for USB devices
- • 2x RS-232/422/485, 2x RS-232, 1x 16-bit DIO for other peripherals
- • up to 6x SATA3.0, optional 32GB eMMC for storage
- • 1x PCIex8 for expansion

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## Product Overview

UATX-DNV0 Series is a Micro-ATX industrial motherboard equipped with dual core up to hexadeca-core Intel® Denverton SoC processors, Atom™ C3000 Series, which is specially suitable for dense low-power network, storage, and IoT applications.

It has up to six SATA3.0 sockets and optional 32GB eMMC drive soldered on-board for storage as well as a PCIex8 slot for other specific functions. In addition, It supports up to four GbE LAN copper ports and four 10GbE LAN optical ports to deliver sufficient traffic flow for huge data volumes.

## Technical Information

| CPU Support |
| --- |
| Intel® Atom™ C3000 Series (Dual Core up to Hexadeca Core, 24W TDP) |

| Memory |
| --- |
| 4x DDR4 2133 UDIMM / RDIMM |

| Ethernet |
| --- |
| up to 4x GbE LAN (RJ-45 on rear, Intel® I210-AT) |
| 4x 10GbE LAN (SFP+ on rear) |

| USB |
| --- |
| 2x USB3.0 (Type A on rear) |
| 2x USB2.0 (by header) |

| Serial Ports |
| --- |
| 2x RS-232/422/485 (1x DB9 on rear, 1x by wafer) |
| 4x RS-232 (by wafer) |

| Other I/O Ports |
| --- |
| 1x 16-bit DIO (by header) |

| Storage & Expansion |
| --- |
| up to 6x SATA3.0 |
| 32GB eMMC (on board, optional) |
| 1x PCIex8 |

| Power Supply |
| --- |
| 2x24-pin ATX Wafer for power DC input |
| 2x4-pin Wafer for CPU Core Power Supply |

| Firmware |
| --- |
| BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash |
| Watchdog: Programmable WDT to generate system reset event |
| H/W Monitor: Voltages, Temperatures |
| Real Time Clock: Processor integrated RTC |
| TPM: optional (Infineon SLB9665 TPM 2.0) |

| System Control & Monitoring |
| --- |
| 1x Header for Reset button, HDD LED |
| 1x Header for Power button, Power LED & SM bus |
| 1x Header for mPCIe Activity LED |

| Cooling |
| --- |
| 1x Wafer for CPU Smart Fan |
| 1x Wafer for System Smart Fan |
| 1x Wafer for AUX Smart Fan |

| Dimensions (L x W) |
| --- |
| Micro-ATX (244 x 244 mm / 9.61" x 9.61") |

| Environmental Characteristics |
| --- |
| Operation Temp.: 0°C ~ 60°C / 32°F ~ 140°F |
| Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F |
| Humidity: 0% ~ 95% |

| Certification |
| --- |
| CE, FCC Class A |

## UATX-DNV0 Series Rear I/O Ports

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