MARS300

Main Features

- Intel® Celeron® J6412 processor
- 1 x DDR4 3200 SO-DIMM, non-ECC, up to 32GB
- Support dual display: VGA + HDMI®
- 2 x Intel® 1GbE RJ45 port, 2 x USB 3.2 Gen1, 2 x USB 2.0, 1 x RS-232
- 1 x RS-232/485/422, 1 x 8-bit GPIO

- 1 x M.2 Key B
- 1 x Full size Mini PCIe slot
- 12V or 24V DC In put

Product Overview

MARS300 is a fanless PC powered by the newest generation Intel® Celeron® J6412 processor. It offers power-efficient performance designed for the next generation of industrial edge-connected embedded systems that require high-resolution graphics and low power consumption, such as industrial automation, intelligent transportation, retail, and smart city IoT solutions.

MARS300 can operate in a temperature range from 0°C to 50°C. It supports up to 2 display outputs simultaneously and delivers superior graphics capabilities via Intel® UHD Graphics 16EUs. MARS300 has 2 x GbE LAN port and 2 x COM port. It also features an internal 1 x M.2 slot for SATA storage and 1 x full-size Mini PCIe slot for Wi-Fi and Bluetooth.

MARS300 drives performance, integration, and versatility for industrial environments, offers a lower total cost of ownership, and supports 12 V DC or 24 V DC input.

Specifications

CPU/Chipset
- Intel Celeron® J6412 processor (embedded)

Main Memory
- 1 x DDR4 3200 SO-DIMM, non-ECC, up to 32GB

BIOS
- AMI (UEFI)

Display
- 1 x VGA, up to 1920x1080@60Hz
- 1 x HDMI® 1.4b, up to 3840x2160@30Hz

Storage
- 1 x M.2 2242 Key B (SATA)

Expansion Slot
- 1 x Full size Mini PCIe
  - Support PCIe/USB 2.0 Interface

Rear I/O
- 2 x USB 3.2 Gen 1
- 2 x 1GbE RJ45 port, Intel® I210AT
- 2 x USB 2.0
- 1 x VGA
- 1 x HDMI®
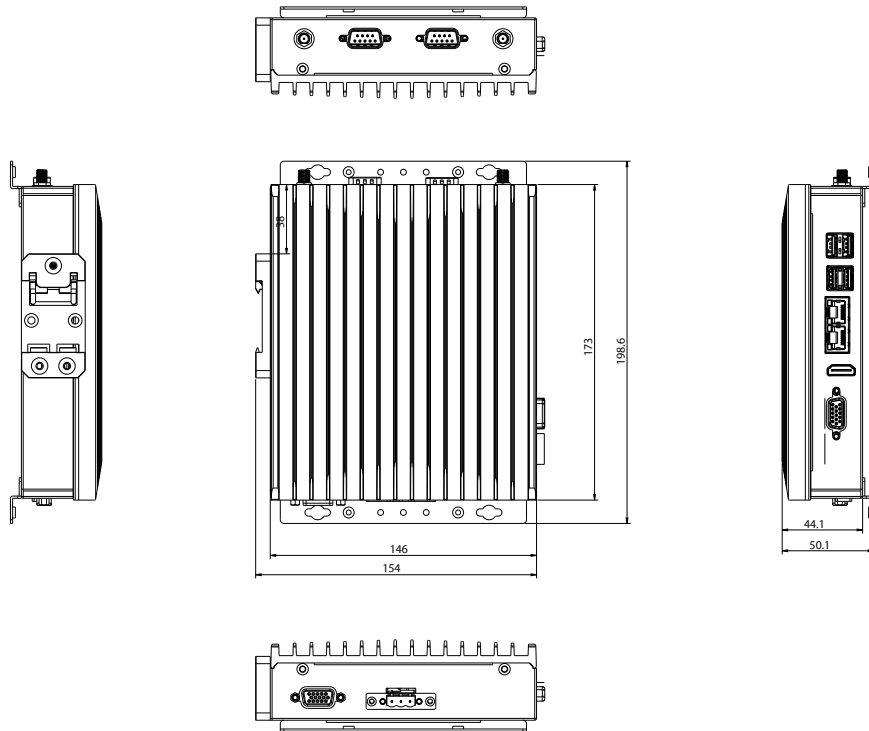
Mounting
- Wall Mount
- Din-Rail (optional)

OS
- Windows 10, 64bit
- Linux

Power Requirement
- 1 x 4-pin (2x2) ATX Power connector
  - Input power 12V or 24V DV only, auto detect
- Support both AT and ATX power supply mode

nexCOBOT

Dimension Drawing

Dimension
- 198.6mm x 154mm x 50.1mm

Environment
- Board level operation temperature: 0℃ to 50℃
- Storage temperature: -40˚C to 85˚C
- Relative humidity:
  - 10% to 95% (operating, non-condensing)
  - 5% to 95% (non-operating, non-condensing)

Certifications
- Meet CE
- FCC Class A

Ordering Information

Barebone

- **MARS300 (P/N: 10JF0MARS14X0)**
  Intel® Celeron® J6412 processor, fanless PC, temperature: 0℃ to 50℃

- **12V, 60W DC power adapter w/o power cord (P/N: 7400060062X00)**

OPEN ROBOTS & MACHINES

We reserve the right to change specifications and product descriptions at any time without prior notice.

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