# MXE-5600 Series

Fanless Embedded PC with Intel® Xeon® or Core™ i7/i5/i3
9th/ 8th Gen. CPU

**BRESSNER**
A ONE STOP SYSTEMS COMPANY

## Features

- Intel® Core™/ Xeon® 9th/8th Gen. CPU
- DDR4 2,400MHz RAM up to 32GB
- Mobile Intel® CM246 chipset
- Dimensions: 210 (W) x 240 (D) x 86 (H) mm
- Operating temperature: -20° ~ 70 °C



## MXE-5600 Series – High processing power and rugged design

The fanless embedded computing series MXE-5600, which includes the Intel® Core™ processor of the 8th or 9th generation, offers an expandable interface for a wide range of industrial applications. The MXE-5600 series combines high-performance computing, scalable functional and I/O enhancements, and industrial-grade reliability in a compact fanless platform and offers reliable long-term operation for performance-critical applications in industrial automation, edge computing, surveillance, and smart city environments. The Embedded PC series consists of a classically robust design. The fanless Embedded PCs support up to 32GB DDR4 memory and are therefore ideal for computationally intensive tasks.

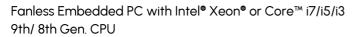## High performance for industrial requirements

The embedded systems combine outstanding performance with extensive connectivity and are easy to use. The robust housing allows the use under difficult conditions. With the use of an Intel® Core™ i3, i5 or i7 processor of the eighth or ninth generation, the embedded computer focuses on high performance with minimal power consumption. Together with unique image and video processing and efficient remote monitoring, the MXE-5600 series meets the requirements for use in critical applications with the highest demands on reliability. Proven applications in industrial environments include machine vision, motion sensors and system monitoring.

## Flexible connection options and high resistance

The MXE-5600 series offers in each version two independently working DisplayPorts, including HDMI connection and is therefore also ideally suited for digital signage scenarios. In addition to 32GB DDR4 RAM, two SATA III HDD or SSD hard disks can be installed. Temperature fluctuations in the extended temperature range (for industrial storage devices) as well as shocks and vibrations are no problem for the industrial computers. The series can be operated with power supplies in a voltage range of 9-32V and thus offers flexibility for different application scenarios. Four USB 3.1 ports as well as four USB 2.0 ports on the front panel and six COM ports also offer plenty of connection options for additional devices.

| Optional Accessories | |
|---|---|
| 2.5" SSD, HDD, M.2, CFast Storage | |
| Wireless Module | Wi-Fi, BT, 3G, 4G LTE, LoRa wireless kit (w/ antenna) |
| 160W AC/DC Adapter | P/N: 31-62120-0010 |

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9th/ 8th Gen. CPU

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| Specifications | MXE-560X | MXE-5601 | MXE-5602 | MXE-5603 |
|---|---|---|---|---|
| **SYSTEM** | | | | |
| CPU | Intel® Xeon® E-2276ME 45W 6-core, up to 4.5GHz | Intel® Core™ i7-9850HE 45W 6-core, up to 4.4GHz | Intel® Core™ i5-8400H 45W 4-core, up to 4.2GHz | Intel® Core™ i3-9100HL 25W 4-core, up to 2.9GHz |
| Chipset | Mobile Intel® CM246 | | | |
| RAM | Up to 32GB DDR4 2,400MHz, dual SODIMMs Optional: 8, 16, 32GB DDR4 ECC 2,400MHz (Xeon® and i3 support ECC) | | | |
| Storage | Up to 4x internal 2.5" HDD / SSD (supports RAID 0, 1, 5, 10) 1x CFast type II slot | | | |
| AMT | Intel® iAMT support | | | |
| TPM | TPM 2.0 | | | |
| Expansion | 1x Full size mini PCIe (USB 2.0 + PCIe) 1x M.2 socket 2, key B+M or B, 2280/3042: USB 3.1 Gen 1, SATA 6 Gb/s and PCIe x2 2x USIM (1x for mini PCIe and 1x for M.2) | | | |
| Operating System | Win10 IoT Enterprise CBB 64-bit Linux Ubuntu 18.04 | | | |
| **INTERFACE** | | | | |
| Ethernet | 2x Intel® GbE: 1x i211AT + i219 | | | |
| USB | 4 x USB 2.0 ports 4 x USB 3.1 ports 1x USB 2.0 port (internal) | | | |
| COM | COM 1/2: 2x RS-232/422/485 COM 3/4/5/6: 4x RS-232 | | | |
| Digital I/O | 8-Ch DI and 8-Ch DO | | | |
| Video | 1x HDMI + 2x Display Port++ | | | |
| Audio | 1x Mic-in and 1x Line-out (Speaker-out optional) | | | |
| **ENVIRONMENTAL** | | | | |
| Cooling | Fanless | | | |
| Power Supply | DC input: 9 ~ 32V (± 10% tolerance) AC input: 160W AC/DC adapter (optional) | | | |
| Remote Control & LED | 5x user defined LEDs | | | |
| Operating Temperature | Standard: 0° ~ 50°C with airflow Extended: -20° ~ 70°C (only support single SODIMM) -20° ~ 60°C (with dual SODIMMs) | | | |
| Storage Temperature | -40° ~ 85°C (excluding storage) | | | |
| Vibration / Shock Resistance | Vibration: Operating: 5 Grms, 5-500 Hz, 3 axes (w/ SSD/CFast) Operating: 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD) Shock: Operating: 100 Grms, half sine 11ms duration (w/ SSD/CFast) | | | |
| Humidity | ~95% @ 40°C, non-condensing | | | |
| Dimensions | 210 (W) x 240 (D) x 86 (H) mm | | | |
| Weight | 3.6 kg | | | |
| Mounting | Wallmount | | | |
| Certifications | Safety: UL/cUL, CB EMC: EN61000-6-4/-2, CE & FCC Class B with AC/DC adapter ESD: Contact ±8KV, Air ±15KV | | | |