

MXC-6600 Series

9th Gen Intel® Xeon®, Core™ i7/i3 and 8th Gen Intel® Core™ i5 Processor-Based Embedded Fanless Computer

Features

- 9th Gen Intel® Xeon®, Core™ i7/i3 and 8th Gen Intel® Core™ i5 Processor-Based Embedded Fanless Computer
- Dual SODIMMs for up to 32GB DDR4
- Rich I/O: 2x DP++, 1x HDMI, 2x GbE, 6x COM, 8-ch DI, 8-ch DO, TPM 2.0
- 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 4x USB 2.0
- Rich storage: up to 4 internal 2.5" SATA 6 Gb/s ports with RAID 0/1/5/10 support, CFAST, M.2 2280
- Embedded expansion: 1x Mini PCIe, 1x M.2 3042, 2x USIM
- Front accessible I/O and adaptive Function Module v.2 option
- 5x user defined LEDs
- Flexible modular expansion with 2 or 4 slots



Software Support

- Win10 IoT Enterprise CBB 64bit
- Linux Ubuntu 18.04

Ordering Information

| Model | CPU | PCH | Slot # |
|-----------------|------------------------|-------|--------|
| MXC-662X-2E/M4G | Intel® Xeon® E-2276ME | CM246 | 2 |
| MXC-6621-2E/M4G | Intel® Core™ i7-9850HE | CM246 | 2 |
| MXC-6622-2E/M4G | Intel® Core™ i5-8400H | CM246 | 2 |
| MXC-6623-2E/M4G | Intel® Core™ i3-9100HL | CM246 | 2 |
| MXC-664X-3E/M8G | Intel® Xeon® E-2276ME | CM246 | 4 |
| MXC-6641-3E/M8G | Intel® Core™ i7-9850HE | CM246 | 4 |
| MXC-6642-3E/M8G | Intel® Core™ i5-8400H | CM246 | 4 |
| MXC-6643-3E/M8G | Intel® Core™ i3-9100HL | CM246 | 4 |

Optional Accessories

- **2.5" SSD, HDD, M.2, CFAST Storage**
- **MXC-6600 Fan Kit (P/N: 91-95267-000E)**
- **Additional 2x 2.5" SATA expansion kit**
- **Wireless Module**
Wi-Fi, BT, 3G, 4G LTE, LoRa wireless kit (w/ antenna)
- **AC/DC Adapter**
280W (P/N: 91-95263-0010)
220W (P/N: 31-62149-0010-A0)

Specifications

| Model Name | MXC-660X | MXC-6601 | MXC-6602 | MXC-6603 |
|------------------------|--|----------------------------|---------------------------|----------------------------|
| System Core | | | | |
| Processor | Intel® Xeon® E-2276ME 45W | Intel® Core™ i7-9850HE 45W | Intel® Core™ i5-8400H 45W | Intel® Core™ i3-9100HL 25W |
| Core | 6 | 6 | 4 | 4 |
| Base Freq. | 2.8 GHz | 2.7 GHz | 2.5 GHz | 1.6 GHz |
| MAX Turbo Freq. | 4.5 GHz | 4.4 GHz | 4.2 GHz | 2.9 GHz |
| Chipset | Mobile Intel® CM246 | | | |
| Memory | 4GB DDR4 2400MHz, dual SODIMMs, up to 32GB Optional: 8, 16, 32GB DDR4 ECC 2400MHz (Xeon® and i3 support ECC) | | | |
| I/O Interfaces | | | | |
| Display | 2x DP++ and 1x HDMI | | | |
| Ethernet | 2x Intel® GbE: 1x i211AT + 1x i219 iAMT support | | | |
| Serial Ports | COM1/2: RS-232/422/485, COM3/4/5/6: RS-232 | | | |
| USB | 2x USB 3.1 Gen 2 + 2x USB 3.1 Gen 1 + 4x USB 2.0, 1x internal USB 2.0 dongle | | | |
| Audio | Line-out, Mic-in (Optional: speaker-out) | | | |
| Mini PCIe | 1x Full size (USB 2.0 + PCIe) | | | |
| M.2 | 1x socket 2, key B+M or B, 2280/3042: USB 3.1 Gen 1, SATA 6 Gb/s and PCIe x2 | | | |
| USIM | 2 (1 for Mini PCIe and 1 for M.2) | | | |
| DI/O | 8-ch DI and 8-ch DO | | | |
| I ² C | 2 (3.3V & 5V) | | | |
| TPM 2.0 | Supported | | | |
| Expansion Slots | MXC-6620 series : PCIe x16 + PCIe x4 (Total up to 150W) MXC-6640 series : PCIe x16 + 2 PCIe x4 + PCI (Total up to 150W with 12V in; total up to 250W with 24V in) | | | |
| Storage Devices | | | | |
| 2.5" SATA | 2x internal (supports RAID 0, 1, 5, 10) Optional: additional 2x internal | | | |
| CFast | 1x Type II | | | |
| Mechanical | | | | |
| Dimensions | MXC-6620 series: 165 (W) x 240 (D) x 210 (H) mm (6.5" x 9.45" x 8.27") MXC-6640 series: 206 (W) x 240 (D) x 210 (H) mm (8.11" x 9.45" x 8.27") | | | |
| Weight | MXC-6620 series : 4.6 kg (10.2 lbs) MXC-6640 series : 4.9 kg (10.8 lbs) | | | |
| Mounting | Wall mount | | | |
| Power Supply | | | | |
| DC Input | 9 to 32V (± 10% tolerance) | | | |
| AC Input | Optional: 220W or 280W AC/DC adapter | | | |
| Environmental | | | | |
| Operating Temperature | Standard: 0°C to 50°C w/ airflow Extended temperature (w/ ind. storage, airflow) -20°C to 70°C (-4°F to 158°F) (only support single SODIMM) -20°C to 60°C (-4°F to 140°F) (w/ dual SODIMMs) | | | |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) (excluding storage) | | | |
| Humidity | ~95% @ 40°C (104°F) (non-condensing) | | | |
| 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) | | | |
| ESD | Contact ±8KV, Air ±15KV | | | |
| EMC | EN61000-6-4/-2, CE & FCC Class B with validated AC/DC adapter | | | |
| Safety | UL/cUL, CB | | | |