

# BX-M4600P2 / P2A

## Embedded Fan less System

Intel® Core™ i3-13100TE, Core™ i5-13500TE / i7-13700TE

Extend Peripherals Freely Rich Interface

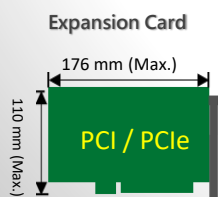
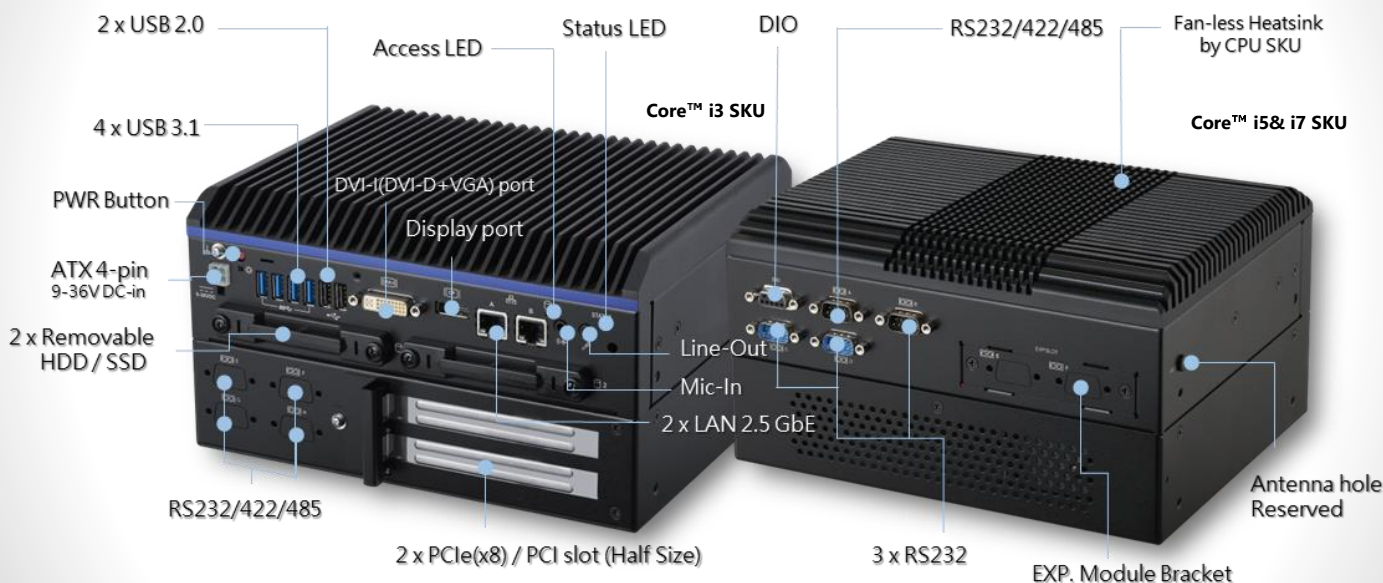


Technology for a better life

### FEATURES



- Intel® R680E Chipset to support Intel® 13th Gen. LGA-1700 CPU (TDP 35W)
- 2 x 2.5" storage (up to 2.5 TB each) devices with RAID 0,1 supported
- Includes M.2 slots for Wi-Fi and WWAN+GNSS with SIM, plus PCIe(x8) or PCI slots, offering various expansion interfaces.
- dual RJ45 Ethernet ports (2.5Gbps), 4 x USB3.2 , 2 x USB2.0, Display Port 1.4 and DVI-I.
- Security by TPM2.0, Wide range DC input



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| Model No. | BX-M4600P2x-G32 | BX-M4600P2x-G52 | BX-M4600P2x-G53 | BX-M4600P2x-G73 |
|-----------|-----------------|-----------------|-----------------|-----------------|
| CPU       | Core i3-13100TE | Core i5-13500TE | Core i5-13500TE | Core i7-13700TE |
| Memory    | 8 GB            | 8 GB            | 16 GB ECC       | 16 GB ECC       |

| Specifications         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NAME             | BX-M4600P2 / BX-M4600P2A                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CHIPSET                | Intel® R680E                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| BIOS                   | AMI UEFI BIOS                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MEMORY                 | 2 x 262-pin DDR5 4800MHz SO-DIMM socket, up to 64GB ECC & Non-ECC                                                                                                                                                                                                                                                                                                                                                                            |
| STORAGE I/F            | 2 x 2.5" HDD/SSD Removeable Bay by SATA III (6.0Gb/s) connector<br>1 x M.2 Key M 2242/2260/2280, support Intel RST, PCI-e x4 mode SSD                                                                                                                                                                                                                                                                                                        |
| EXPANSION SLOT         | BX-M4600P2-xxx : PCIe(x8) slot×2<br>BX-M4600P2A-xxx : PCI slot×2                                                                                                                                                                                                                                                                                                                                                                             |
| WATCHDOG TIMER         | Hardware Reset, 5~255 seconds/ 5~255 minutes                                                                                                                                                                                                                                                                                                                                                                                                 |
| HARDWARE MONITORING    | System monitor(Voltage, Fan Speed and Temperature)                                                                                                                                                                                                                                                                                                                                                                                           |
| EXPANSION INTERFACE    | 1 x M.2 Key E 2230, support WiFi module<br>1 x M.2 Key B 3042/2242/2260/2280,<br>support WWAN+GNSS with SIM card slot & SSD (SATA)                                                                                                                                                                                                                                                                                                           |
| AUDIO                  | MIC-In, line-out                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ETHERNET               | Dual RJ45 connector (front I/O)<br>2 x 10/100/1000/2500 Mbps Ethernet port by Intel i226 controller                                                                                                                                                                                                                                                                                                                                          |
| SERIAL PORT            | 1 x RS232/422/485 DB-9P (Selected by BIOS) (Rear I/O)<br>3 x RS232 DB-9P (Rear I/O)                                                                                                                                                                                                                                                                                                                                                          |
| USB PORT               | 4 x USB3.2 Gen2 (front I/O)<br>2 x USB2.0 (front I/O)                                                                                                                                                                                                                                                                                                                                                                                        |
| GPIO                   | Non-isolated 6-bit GPIO+POWER switch signals by D-SUB 9P (Rear I/O)                                                                                                                                                                                                                                                                                                                                                                          |
| DISPLAY INTERFACE      | 1 x Display Port1.4 (up to 4096 x 2160 @ 60Hz)<br>1 x DVI-I port on rear I/O, support DVI-D & VGA signal (up to 1920 x 1200 @ 30Hz)                                                                                                                                                                                                                                                                                                          |
| POWER MANAGEMENT       | Power On by Ring/ Wake on LAN function (setting from BIOS)                                                                                                                                                                                                                                                                                                                                                                                   |
| MOUNTING               | Wall mount kit                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DIMENSIONS (W x D x H) | 235(W)×185(D)×129.5(H) (No protrusions)                                                                                                                                                                                                                                                                                                                                                                                                      |
| POWER SUPPLY           | Rated input voltage : 12 - 24VDC<br>Input voltage range: 9 - 36VDC<br>Over Voltage Protection : 39VDC Setting                                                                                                                                                                                                                                                                                                                                |
| ENVIRONMENT            | Operation Temperature: <b>Core™ i3 SKU</b><br>0°C to 50°C with Air Flow: 0.7 m/s (w/ Standard Temp. SSD)<br>0°C to 40°C with to Air Flow: 0.7 m/s (w/ Standard Temp. HDD)<br><br>Operation Temperature: <b>Core™ i5/ i7 SKU</b><br>0°C to 55°C with Air Flow: 0.7 m/s (w/ Standard Temp. SSD)<br>0°C to 40°C with to Air Flow: 0.7 m/s (w/ Standard Temp. HDD)<br><br>Storage Temperature: -10 to 60°C<br>Humidity: 10 to 90% non-condensing |
| OS DRIVER SUPPORT      | Windows®10 IoT Enterprise LTSC 2021 64 bit                                                                                                                                                                                                                                                                                                                                                                                                   |
| CERTIFICATE            | CE / FCC (Class A ) / VCCI / UKCA / RoHS2.0                                                                                                                                                                                                                                                                                                                                                                                                  |

| Ordering Guide       |                  |                       |                  |
|----------------------|------------------|-----------------------|------------------|
| Model No.            | CPU              | Memory                | Expansion slot   |
| BX-M4600P2-G3200000  | Core™ i3-13100TE | 8GB DDR5 4800 Non-ECC | 2x PCIe(x8) slot |
| BX-M4600P2-G5200000  | Core™ i5-13500TE | 8GB DDR5 4800 Non-ECC | 2x PCIe(x8) slot |
| BX-M4600P2-G5300000  | Core™ i5-13500TE | 16GB DDR5 4800 ECC    | 2x PCIe(x8) slot |
| BX-M4600P2-G7300000  | Core™ i7-13700TE | 16GB DDR5 4800 ECC    | 2x PCIe(x8) slot |
| BX-M4600P2A-G3200000 | Core™ i3-13100TE | 8GB DDR5 4800 Non-ECC | 2x PCI slot      |
| BX-M4600P2A-G5200000 | Core™ i5-13500TE | 8GB DDR5 4800 Non-ECC | 2x PCI slot      |
| BX-M4600P2A-G5300000 | Core™ i5-13500TE | 16GB DDR5 4800 ECC    | 2x PCI slot      |
| BX-M4600P2A-G7300000 | Core™ i7-13700TE | 16GB DDR5 4800 ECC    | 2x PCI slot      |