

# mBOX100 Preliminary

Medical Grade Fanless Slim System with 8th Gen Intel® Core™ i7/i5 & Celeron® Processor for Smart Healthcare Applications

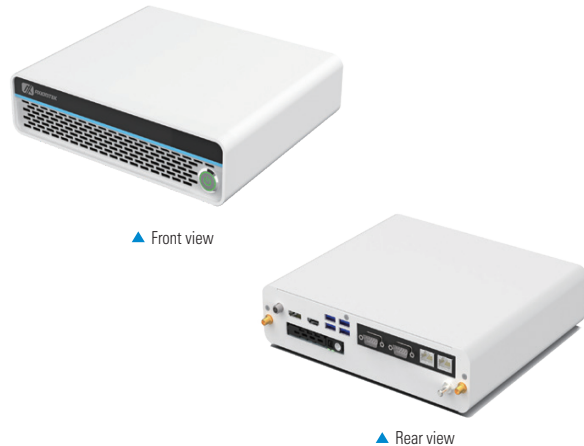
## Features

- 8th gen Intel® Core™ i7/i5 & Celeron® processor (Whiskey Lake-U), TDP 15W
- 2 DDR4-2400 SO-DIMM for up to 64GB memory
- 1 HDMI and 1 DisplayPort with 4K UHD supported
- 2 COM & 2 GbE LAN support 4kV isolation
- Swappable 2.5" SATAIII SSD tray with security lock
- Antimicrobial coating chassis (optional)



## Specifications

|                       |                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Color        | White                                                                                                                                                                                                                                    |
| CPU                   | Intel® Core™ i7-8665UE/i5-8365UE processor (Whiskey Lake-U) with TDP 15W                                                                                                                                                                 |
| System Memory         | 2 x 260-pin DDR4-2666 non-ECC SO-DIMM, up to 64GB                                                                                                                                                                                        |
| Chipset               | SoC integrated                                                                                                                                                                                                                           |
| Display               | Intel® UHD Graphics 620<br>Supports Gfx - DX12.0, OCL2.0, OGL4.3                                                                                                                                                                         |
| BIOS                  | AMI uEFI                                                                                                                                                                                                                                 |
| System I/O Outlet     | 2 x RS-232/422/485<br>2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT & Intel® i219-LM)<br>4 x USB 3.1<br>1 x HDMI 1.4<br>1 x DisplayPort 1.2<br>1 x Power on/off button<br>1 x DC power input connector<br>2 x SMA-type antenna connector |
| Watchdog Timer        | 65535 levels, 1 to 65535 sec.                                                                                                                                                                                                            |
| Storage               | 1 x 2.5" SATAIII SSD<br>1 x M.2 Key M 2280 NVMe SSD slot                                                                                                                                                                                 |
| Expansion Interface   | 1 x Full-size PCI Express Mini Card slot (USB + PCIe signal)                                                                                                                                                                             |
| TPM                   | TPM 2.0                                                                                                                                                                                                                                  |
| System Indicator      | 1 x Blue LED for system power-on                                                                                                                                                                                                         |
| Power Input           | 12-24V DC in                                                                                                                                                                                                                             |
| Operating Temperature | 0°C to +40°C (+32°F to +104°F)                                                                                                                                                                                                           |
| Humidity              | 10% - 90%, non-condensing                                                                                                                                                                                                                |
| Vibration Endurance   | 3Grms STD, random, 5 to 500 Hz, 1 hr/axis                                                                                                                                                                                                |
| Dimensions            | 250 mm (9.8") (W) x 220 mm (8.66") (D) x 60 mm (2.36") (H)                                                                                                                                                                               |
| Weight (net/gross)    | 3 kg                                                                                                                                                                                                                                     |
| Certifications        | CE, FCC<br>IEC-60601 Compliance                                                                                                                                                                                                          |
| EOS Support           | Win 10 IoT, Linux                                                                                                                                                                                                                        |



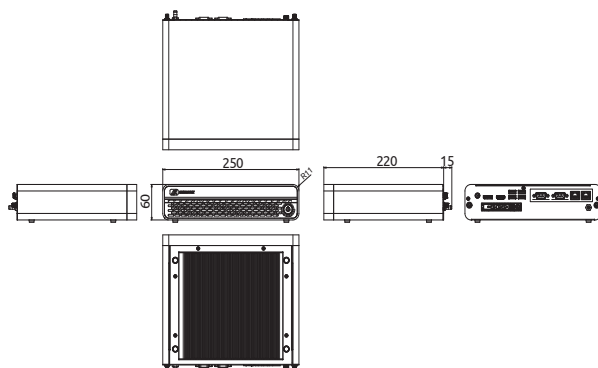
## Packing List

- 1 x Quick manual
- 1 x Screw pack
- 4 x Pre-installed foot pad
- 1 x HDD rubber

## Ordering Information

| Standard      |                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| mBOX100       | Medical Grade Fanless Slim System with 8th Gen Intel® Core™ i7/i5 & Celeron® Processor, HDMI 1.4, DisplayPort 1.2, 2 COM, 4 USB 3.1 and 2 GbE LAN |
| Optional      |                                                                                                                                                   |
| DDR4 SO-DIMM  | 8GB to 32GB                                                                                                                                       |
| 2.5" SATA SSD | 128GB or above                                                                                                                                    |
| M.2 NVMe SSD  | 100GB or above                                                                                                                                    |
| WLAN Kit      | Wi-Fi module & antenna                                                                                                                            |
| Power Adapter | 12V, 65W adapter (Medical Grade)                                                                                                                  |

## Dimensions



## Assured Systems

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