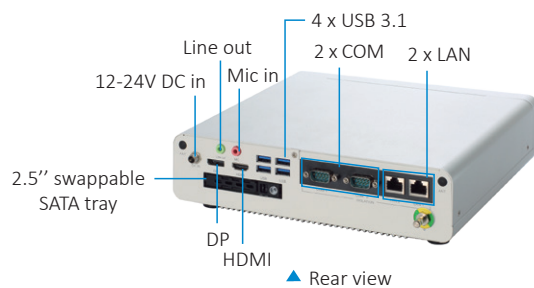


# mBOX100

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



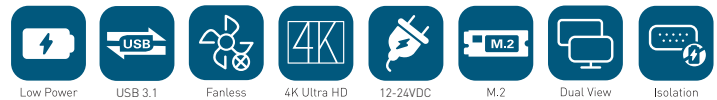
▲ Front view



▲ Rear view

## Features

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



## Specifications

|                       |   |
|-----------------------|---|
| Standard Color        | White   |
| CPU                   | 8th gen Intel® Core™ i7/i5 processor (Whiskey Lake-U) with TDP 15W  |
| System Memory         | 2 x 260-pin DDR4-2400 non-ECC SO-DIMM, up to 64GB   |
| Chipset               | SoC integrated  |
| Graphics              | Intel® UHD Graphics 620   |
| Display               | 1 x HDMI 1.4 (4096 x 2160 @30Hz)<br>1 x DisplayPort 1.2 (4096 x 2304 @60Hz)   |
| BIOS                  | AMI uEFI  |
| System I/O Outlet     | 2 x RS-232/422/485 with isolation supported<br>2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT & Intel® I219-LM, Intel® AMT supported) with isolation supported<br>4 x USB 3.1 Gen2<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<br>1 x Line out<br>1 x Mic in |
| Watchdog Timer        | 65535 levels, 1 to 65535 sec.   |
| Storage               | 1 x 2.5" SATAIII SSD/HDD<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           | 12V to 24V DC power supply  |
| Power Adapter         | 24V/2.7A, 65W adapter (medical grade)   |
| Operating Temperature | 0°C to 40°C (-40°F to 158°F)  |
| Humidity              | 10% - 90%, non-condensing   |

## Specifications

|                     |  |
|---------------------|--|
| Vibration Endurance | 3 Grms 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/6.61 lb   |
| Safety & EMC        | CE, FCC Part 18<br>EN 60601-1:2006 + A1:2013 + A12:2014<br>BS EN 60601-1: 2006 + A1: 2013 + A12:2014<br>EN 60601-1-2: 2015 + A1:2021<br>BS EN 60601-1-2:2015 + A1:2021<br>ISO 14971:2019 |
| OS Support          | Win 10, Linux  |

## Packing List

- 1 x mBOX100 unit
- 1 x 65W medical adapter
- 1 x SDD tray screw pack

## Ordering Information

### Standard

|  |  |
|--|--|
| mBOX100-i7-8665UE<br>(P/N: E27N100101) | Medical grade fanless slim system with Intel® Core™ i7-8665UE processor, 16G DDR4 memory, HDMI 1.4, DisplayPort 1.2, 2 COM, 2 GbE LAN, 4 USB 3.1 Gen2, 1 Line out and 1 Mic in |
| mBOX100-i5-8365UE<br>(P/N: E27N100100) | Medical grade fanless slim system with Intel® Core™ i5-8365UE processor, 16G DDR4 memory, HDMI 1.4, DisplayPort 1.2, 2 COM, 2 GbE LAN, 4 USB 3.1 Gen2, 1 Line out and 1 Mic in |

### Optional

- DDR4 non-ECC SO-DIMM, up to 64GB
- 2.5" SATA HDD/SSD
- M.2 Key M 2280 (PCIe x4) NVMe SSD
- Power cord

## Dimensions

