MEC100

Medical Edge AI Computer

Intel® Core™ Ultra Series 3 (Panther Lake-H) Processor

NEW

Preliminary





Features

- Intel® Core™ Ultra Series 3 (Panther Lake-H) processor delivering up to 100 TOPS with integrated NPU and GPU
- DVI-I interface supports legacy medical equipment
- Powered by 12V~24V DC input ideal for use with off-the-shelf UPS systems
- 2 expansion slots for frame grabber card and GPU/AI acceleration card
- Customizable front panel options for different applications
- IEC/EN 60601 certified



Specifications

System Mainboard	MED3100
CPU Type	Intel® Core™ Ultra 9 386H Intel® Core™ Ultra 7 366H Intel® Core™ Ultra 5 336H
System Speed	Depends on CPU SKU
Memory	2x DDR5 up to 7200 MHz SO-DIMM sockets, Max. 128GB
AI Inference Computing Power	Intel® Core™ Ultra Series 3 (Panther Lake-H) processor delivering up to 100 TOPS with integrated NPU and GPU
Front Panel External I/O	1x USB 2.0 1x Power button
Rear Panel External I/O	1x HDMI 2.0 1x DisplayPort 1x DVI-I 1x RJ-45 1GbE 1x RJ-45 2.5GbE Audio Jack 3x1 for MIC-in / Line-out / Line-in 2x USB 3.2 ports 2x USB 2.0 ports 2x RS-232
Expansion Slot	1x PCIe x16 [Gen5] (PCIe x8 + PCIe x4) via riser card 1x M.2 M-Key 2242/2280 NVMe (PCIe x4) [Gen4] 1x M.2 E-Key 2230 (PCIe x1 +USB) [Gen4]
Storage	1x M.2 M-Key 2242/2280 NVMe (PCIe x4) [Gen4]
Power Requirement	12V~24V DC input
Power Supply	300W Medical power adaptor
Construction	Aluminum & steel 1x System fan
Chassis Color	White
Mounting Type	Desktop
Dimensions	310mm (W) x 344mm (D) x 90mm (H)
Weight	4 kg
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C ~80°C (-4°F~176°F)
Relative Humidity	5%~90%@45°C (non-condensing)
Vibration	Operating: 3Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE, FCC Class B, IEC/EN/ASNS 60601-1-2 4.1, IEC/EN/ASNS 60601-1 3.2
Operating System	Windows 11, Linux (Ubuntu 24.04 LTS)

Ordering Information

MEC100	Chassis with Intel® Core™ Ultra 7 366H CPU, w/ system fan, 1x expansion slot (IP600 riser card), w/o memory/ SSD/
300W power adaptor	300W (24V@12.5A) power adaptor, compatible with IEC/EN/ASNS 60601-1-2 4.1th, IEC/EN/ASNS 60601-1 [PN: A005PS300W1201000P]
Optional Accessories	RTX 4000 BLACKWELL SFF Ada [PN: A008GRAPHIC-S24000P] RTX 2000 BLACKWELL Ada [PN: A008GRAPHICS21030P] Frame grabber card [YUAN SC400N1-L AIO] [PN: A008VDSC400N10000P]

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.