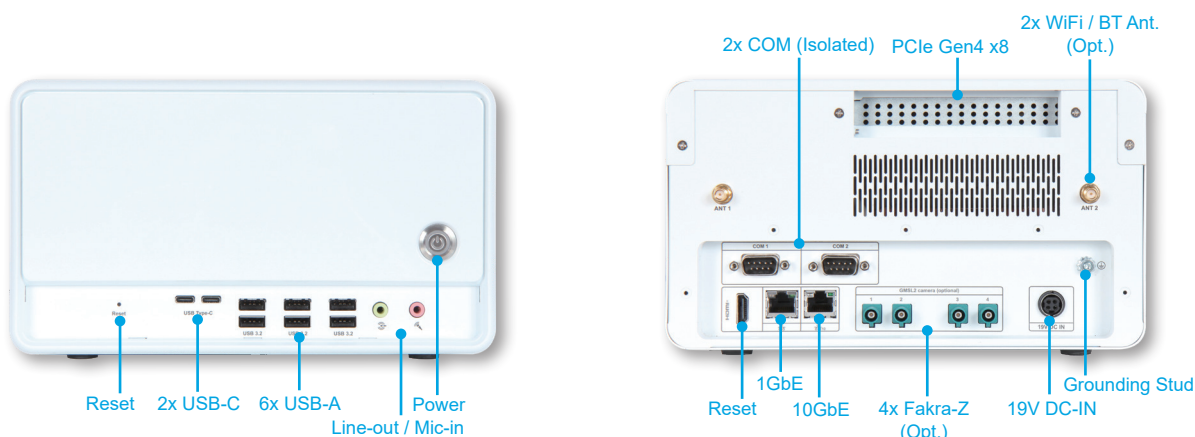
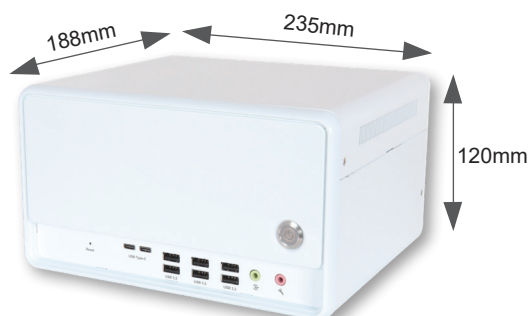


MEDS-5210

Compact Fan-cooled Medical Grade Edge AI Box PC with NVIDIA® Jetson AGX™ Orin SOM

Preliminary



FEATURES

- Medical Edge AI Box PC with NVIDIA® Jetson AGX Orin
- 32GB/64GB 256-bit LPDDR5 (from SOM)
- 1x 64GB eMMC (from SOM), 1x M.2 M-Key NVMe (PCIe x4)
- 1x 1GbE & 1x 10GbE; 1x M.2 E-key for WiFi/ BT Module (WiFi 6E Supported) 6x USB 3.2 Type-A, 2x USB 3.2 Type-C on front side
- 4x Fakra-Z (GMSL2 Camera, Optional) or 1x 120-pin Samtec MIPI CSI-2 Connector, 1x PCIe Gen4 x8 Slot Expansion (ext. Video Capture Card for 3G/12G-SDI)

General

Processor	NVIDIA® Jetson AGX Orin™ 32G (8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3) NVIDIA® Jetson AGX Orin™ 64G (12-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3)
Memory	Support up to 64GB 256-bit LPDDR5 on board
Storage	1 x M.2 Key-M NVMe PCIe x4 2280 1 x eMMC 64G on board
Graphic Controller	NVIDIA® Ampere® GPU 1792 NVIDIA CUDA cores and 56 Tensorcores Ray-Tracing cores NVIDIA® Ampere® GPU 2048 NVIDIA CUDA cores and 64 Tensorcores Ray-Tracing cores

System I/O

Audio	1 x Audio Jack Line-out on Front 1 x Audio Jack Mic-in on Front
Ethernet	1 x GbE 1 x 10 GbE
Serial Port	2 x Isolated DB9 COM Ports Support RS-232/422/485
USB	6 x USB 3.2 Gen1 Type A on Front 2 x USB 3.2 Gen1 Type C on Front
GPIO	1 x 8-bit Digital I/Os on Board Pin Header
Display	1 x HDMI® 2.1 4096 x 2160@60Hz
Other	Power Button with LED Indicator on Front, Reset Button on Front, Recovery Button on Board, JTAG Header on Board, RTC battery on Board, Grounding Stud
Antenna	2 x SMA Antenna holes for Wi-Fi / BT (Optional)
Video Input	4 x Fakra-Z GMSL2 Camera (Optional)

Expansion I/O

PCIe	1 x slot with PCIe x8 PCIe x4
M.2	1 x E Key w/ 2230 PCIe x1 and USB 2.0 for WiFi/BT (Optional)

ME/Environment

Dimension (WxDxH)	235 x 188 x 120 mm (9.25" x 7.40" x 4.72")
Weight	3.5 kg
Power Supply	4Pin-DIN Jack 19V with 150W Medical-grade power adapter
Mounting	Desktop
Operating Temperature	0 ~ 40 °C (32.0 ~ 104.0 °F)
Storage Temperature	-40 ~ 80 °C (-40.0 ~ 176.0 °F)
Cooling	1 x CPU Cooler 1 x System Fan
BSP	6.2
OS	Linux (NVIDIA JetPack OS)