

# SI-624-AI

## Industrial AI Computer

Edge AI Computing System with 13th/12th Gen Intel® Core™ processors & NVIDIA Ampere Architecture MXM GPU cards



### Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 13th/12th Gen Intel® Core™ i7/i5/i3 / Pentium® / Celeron® QC/DC processors
- 2x DDR4-3200 SO-DIMM, Max. 64GB, ECC compatible
- NVIDIA Ampere Architecture MXM GPU cards (Type A/B, up to 115W)
- 4x DP++ output
- 1x M.2 B-Key (3052) for 5G or LTE options
- 1x M.2 E-Key (2230) & 2x M.2 M-Key (2280) for Wi-Fi, Bluetooth, capture or storage options
- Supports OOB function via I210 LAN port (optional)
- Supports TPM 2.0

### Specifications

System Mainboard	MBD624
CPU Type	13th/12th Gen Intel® Core™ processors
System Speed	Up to Max. 5.0/3.8 Ghz
Memory	2x DDR4-3200 SO-DIMM, Max. 64GB, ECC compatible
Accelerator Card	NVIDIA Ampere Architecture MXM GPU card/ up to 5888 CUDA cores / 17.66 TFLOPS peak FP32 performance / 184 Tensor Cores
LAN	2x Gigabit LAN
Front Panel External I/O	1x HDMI 1.4 for console 1x HDMI-in for capture card (optional) 2x USB 3.2 1x Power / HDD LED 1x Power button
Rear Panel External I/O	4x DisplayPort 2x USB 3.2 2x RJ45 for Gigabit LAN 2x RS-232 serial port 1x Audio connector for Line-in/out/MIC 1x Power jack connector
Expansion Slot	1x M.2 (M-Key, type:2280, supports NVMe with PCI-E(x4) Gen.4 signal only) 1x M.2 (E-Key, type: 2230, 2x PCI-E(x1), USB 2.0; supports CNVi) 1x M.2 (B-Key, type:3052, supports 5G/4G/LTE) 1x UIM/SIM card slot
Storage	1x M.2 M-Key (2280)
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+19V DC
Power Supply	270W power adaptor
Construction	SGCC
Chassis Color	Black and white
Mounting	Standard system bracket
Weight	3kg (6.6lbs)
Dimensions	329mm(W) x 25.3mm(D) x 73mm(H) 12.9"(W) x 0.99"(D) x 2.87"(H)
Others	NA
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)

Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90% @45°C (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE, FCC class-B, UL & CCC
Operating System	Windows10 / Linux

### Ordering Information

SI-624-AI	Edge AI Computing System with MBD624 with 13th/12th Gen Intel® Core™ processors, 1x Nvidia MXM GPU card, M.2 128GB, 2x 8GB DDR4-3200 SO-DIMM and 270W power adaptor
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### Dimensions and Drawing

