



# 2023

# New Products

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### Industrial Panel PC

## BYTEM200-121

All-in-One 12.1" Fanless Compact Panel PC with 11th Gen Intel® Core i5/i3 Processors



- 11th Gen Intel® Core™ i5/i3 processors
- 12.1" projected capacitive touch screen
- True flat front bezel touch screen with IP66 front panel
- Modularized expansion I/O design
- 2x optional GbE LAN with PoE (15.4W)
- 1x USB Type-C single cable with PD/DP/USB
- DC 9V~36V wide-range power input
- Easy access expansion slots

### Intelligent Transportation Panel PC

## MPPC1201PC

EN50155 Certified 12.1" Fanless Railway Panel PC with Intel® Atom® x6425E Processor



- Intel® Atom® x6425E processor
- EN50155 (2017) & EN45545-2 certified
- Full IP65 waterproof protection
- Supports ultra-long-life LCD panel, M12 connectors
- Flat bezel design, projected capacitive 12.1" touch screen
- Optional auto dimming adjustable
- Supports 24V DC or 72V/110V DC power input

### 1U Rackmount Network Appliance

## INA3604

Enterprise 1U Network Appliance with Intel® Xeon® E-2300 Processors & up to 16 GbE Ports



- Intel® Xeon® E-2300 processors with C252 PCH
- 4x DDR4 UDIMM, RDIMM, Max. 128GB ( ECC )
- 6x RJ45 GbE with 2 pairs bypass on board
- 2x Gbe SFP ports on board
- Optional NIC slot
- 1x PCI-E (x8) expansion slot
- 500W AC single power supply

## AMS322

### Expandable Fanless System

11th Gen Intel® Core™ i7/i5/i3 Processors



- 11th Gen Intel® Core™ i7/i5/i3 processors
- Front removable drive bay for HDD/SSD
- 1x PCI-E (x8) + 1x PCI-E (x4) expansion slot
- Over/Under/Reverse voltage protection
- Supports DIN-rail mount & wall mount
- 2x COM (1x RS232/422/485, 1x RS232 only)  
2x DisplayPorts, 3x 2.5GB LAN ports, 3x USB 3.1,  
3x USB 2.0, Single 24V DC-in
- TPM 2.0

## AGS101TS

### Ultra-Compact IoT Gateway Fanless System

Intel® Atom® x6414RE/X6212RE Processors



- Intel® Atom® x6414RE/x6212RE SoC on board
- 3x Intel® 2.5G LAN ports, supports 5G/4G/LTE
- 1x DVI-I + HDMI for 3x independent displays,  
2x USB 3.1 & 2x USB 2.0
- 2x COM (RS232/422/485), 1x 2.5" internal storage  
device or mSATA
- 9V~36V wide-range power input, supports over/under/  
reverse voltage protection
- Operating temperature from -20°C to + 70°C

## AGS103TS

### Ultra-Compact IoT Gateway Fanless System

Intel® Atom® x6414RE/x6212RE Processors



- Intel® Atom® x6414RE/x6212RE SoC onboard
- GPIO 4-in/4-out & 1x DVI-I & 1x HDMI
- Over/Under/Reverse voltage protection
- Extended operating temperature from -20°C to 70°C
- 9V~36V DC wide-range power input
- 1x M.2 B-Key 3052 supports 5G module
- Optional 1x 2.5" SSD
- 3x 2.5G Ethernet ports
- 2x full-size mPCIe
- 4x COM (RS232/422/485), 2x USB 3.1 & 2x USB 2.0
- Supports DIN-rail mount, wall mount & TPM 2.0

## Edge AI Computing System

### ASB210-953-AI

Slim System with 11th Gen Intel® Core™ U-Series CPU & Hailo-8™ M.2 AI Acceleration Module



**HAILO**  
Empowering Intelligence

- With Hailo-8™ AI accelerator module supporting up to 26 Tera-Operations Per Second (TOPS)
- System with IBASE IB953 3.5" Single Board Computer (TDP-up 28W)
- Onboard 11th Gen Intel® Core™ U-Series Processor
- Supports 2x M.2 sockets (B-Key/E-Key)
- 12V (-10%) ~ 24V (+10%) DC-in power input
- 2x DDR4-3200 SO-DIMM, Max. 64GB
- 3x USB 3.1, 1x USB 2.0, 2x Intel® GbE, 1x COM
- External GPIO, 2x DisplayPort, TPM (2.0)
- Optional VESA mount bracket

## Edge AI Computing System

### EC-3500

AI Computer System with NVIDIA® Jetson AGX Orin™ Series Module



- NVIDIA® Jetson AGX Orin™ Series Module
- 4x PoE, 802.3at. 2.5G (60W)
- 2x Ethernet, 10G and 1G
- 2x CAN
- 2x RS232/422/485
- 8bit GPIO
- 1x M.2 B-Key (3052) for 5G
- OOB function (option)

## Edge AI Computing System

### SI-624-AI

12th Gen Intel® Desktop Core™ i7/i5/i3 / Pentium® / Celeron® QC/DC Processors

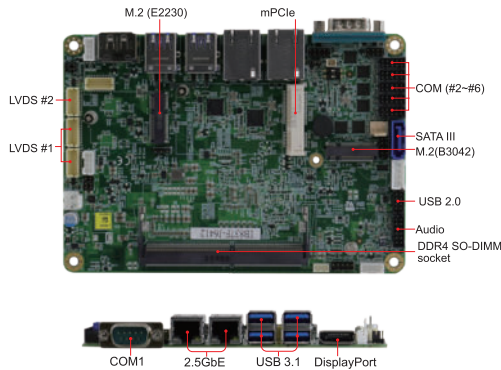


- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 12th Gen Intel® Desktop Core™ i7/i5/i3 / Pentium® / Celeron® QC/DC processors
- 2x DDR4-3200 SO-DIMM, Max. 64GB, ECC compatible
- NVIDIA MXM graphics card (Type-C, up to 150W)
- 4x DP++ output
- 1x M.2 B-Key (3052) for 5G or LTE options
- 1x M.2 E-Key (2230) & 2x M.2 M-Key (2280) for Wi-Fi, Bluetooth, capture or storage options
- Support OOB function via I210 LAN port (Option)

## IB837

### 3.5" Single Board Computer

Intel® Celeron® N Series and J Series Processors

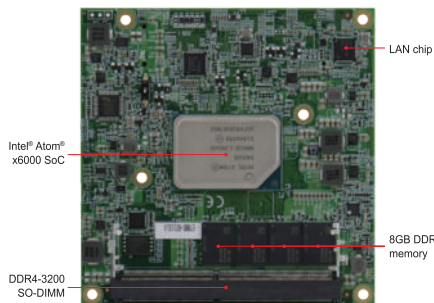


- Onboard Intel® Celeron® N & J series processor
- 1x DDR4-3200 SO-DIMM, Max. 16GB
- Supports 1x DisplayPort & 2 dual channel LVDS
- 2x I226V PCI-E 2.5G LAN , 6x COM ports
- 4x USB 3.1, 2x USB 2.0, 1x SATA III (Share with M/2 B-key)
- 2x M.2 sockets (E-key & B-key), 1x mPCIe (Full-size)
- Watchdog timer, Digital I/O, fTPM, mSATA, 12V only DC-in

## ET880

### COM Express CPU Module

Intel® Atom® x6000 Series Processors (Type 6 & R3.0)

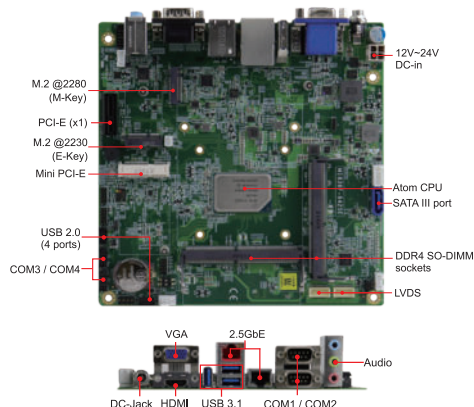


- Onboard Intel® Atom® x6000 series processors
- Onboard 8GB DDR4 memory + 1x DDR4 SO-DIMM, IB ECC compatible
- 1x I226IT PCI-E 2.5G LAN
- 4x USB 3.1, 4x USB 2.0, 2x SATA III, 2x UART (Tx/Rx only)
- Supports 3x independent displays, DisplayPort /DVI-D / LVDS or eDP via carrier board (IP419)
- Supports wide-range operating temperature

## MI836

### Mini-ITX Motherboard

Intel® Atom® x6000 series Processors

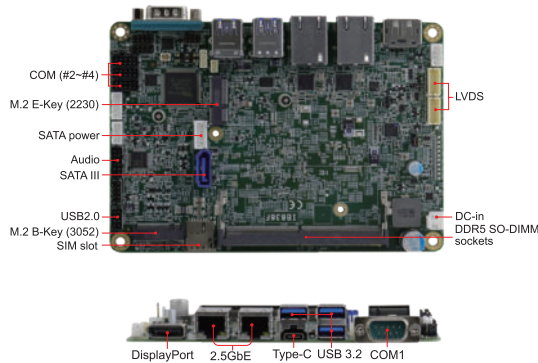


- Onboard Intel® Atom® x6000 series processors
- 2x DDR4-3200 SO-DIMM sockets, Max. 32GB, supports IB ECC
- Intel® Atom® processor integrated graphic HDMI (2.0b), VGA and LVDS or eDP
- Dual Intel® 2.5G LAN (I226IT)
- 3x USB 3.1, 4x USB 2.0, 4x COM, 1x SATA III
- 1x PCI-E (x1) [Gen 3.0], 1x mPCIe, 2x M.2 sockets (M-key & E-key)
- Watchdog timer, Digital I/O, fTPM
- Wide-range operating temperature from -20°C to +70°C

## IB838

### 3.5" Single Board Computer

Intel® Core™ i3 Processor N-series & Intel® Processor N-series

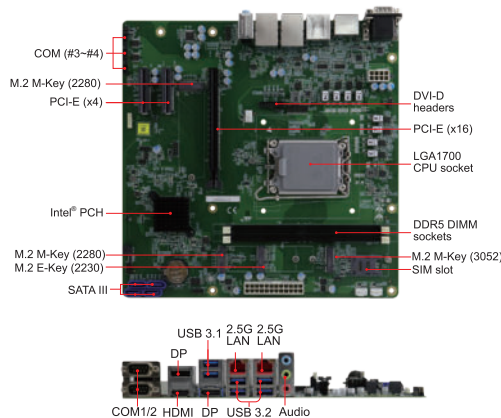


- Intel® Core™ i3 Processor N-series & Intel® Processor N-series on board
- 1x DDR5-4800 SO-DIMM, Max. 16GB
- Supports 3x display interfaces for Type-C, eDP or LVDS and DisplayPort
- 1x M.2 (E-key) & 1x M.2 (B-key) expansion slots
- 9V~36V DC-in power input

## MB998

### Micro ATX Motherboard

13th/12th Gen Intel® Core™ i7/i5/i3 and Pentium® / Celeron® with Intel® R680E/Q670E PCH

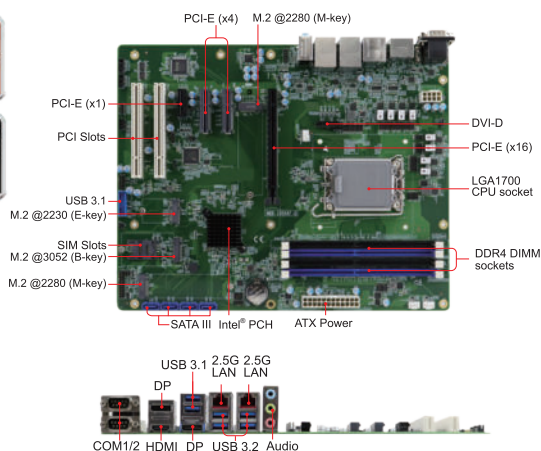


- 13th/12th Gen Intel® Core i7/i5/i3™ and Pentium® / Celeron® Processors
- 2x **DDR5** DIMM sockets, Max. 64GB
- Intel® processor integrated graphic supports HDMI (2.0b), DVI-D and 2x DisplayPort(1.4) (DP++)
- Dual Intel 2.5G LAN
- 6x USB 3.2, 4x COM, 4x SATA III
- 1x PCI-E (x16) [Gen 5.0], 1x PCI-E (x4) [Gen 4.0], 1x PCI-E (x4) [Gen 3.0]
- 4x M.2 (B-key, E-key and 2x M-Key)
- Watchdog timer, Digital I/O, iAMT(16.1), fTPM

## MBB-1000

### ATX Motherboard

13th/12th Gen Intel® Core™ i9/i7/i5/i3 / Pentium® / Celeron® with Intel® R680E/ Q670E PCH

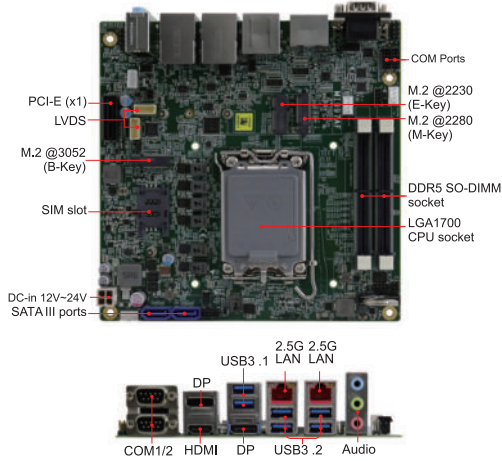


- 13th/12th Gen Intel® Core™ i9/i7/i5/i3 / Pentium® / Celeron® processors
- 4x DDR4 DIMM, Max.128GB
- Intel® processor integrated graphics supports HDMI (2.0b), DVI-D, and DisplayPort (1.4) (DP++)
- Dual Intel® 2.5G LAN
- 8x USB 3.1, 2x USB 2.0, 4x SATA 3.0, 4x COM
- 1x PCI-E(x16) [Gen 5.0], 2x PCI-E(x4) [Gen 4.0], 1x PCI-E(x1) [Gen 3.0], 2x PCI
- 4x M.2 (B-Key, E-Key/ 2x M-Key)
- Watchdog timer, Digital I/O, iAMT (16.0), TPM (2.0)

## MI997

### Mini-ITX Motherboard

12th Gen Intel® Core™ and Celeron® Socketed Processors

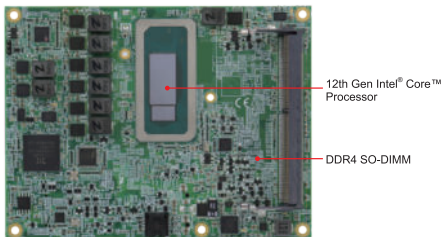


- 12th Gen Intel® Core i7/i5/i3 and Celeron® processors
- 2x DDR5 SO-DIMM sockets, Max. 64GB
- Intel® processor integrated graphic supports HDMI (2.0a), LVDS and 2x DisplayPort (1.4a) (DP++)
- Dual Intel® 2.5G LAN
- 6x USB 3.2, 2x USB 2.0, 4x COM, 2x SATA III
- 1x PCI-E (x1) [Gen 3.0]; 4x M.2 (B-key, E-key and 2x M-Key)
- Watchdog timer, Digital I/O, iAMT(16.0) , fTPM
- 12V~24V DC input

### COM Express CPU Module

12th Gen Intel® Core™ P-series Processors (Type 6 & R3.0)

## ET980

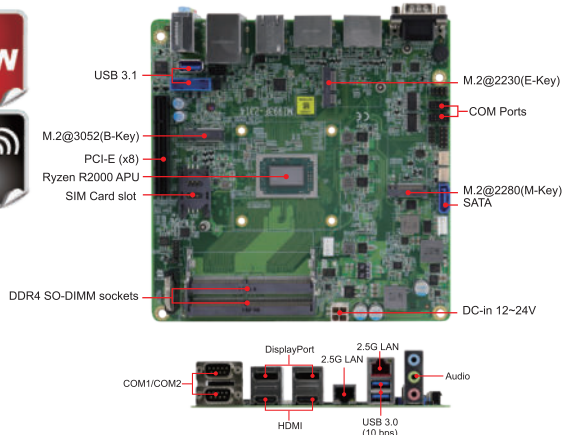


- Onboard 12th Gen Intel® Core™ i7/i5/i3 processors
- 2x DDR4-3200 SO-DIMM sockets, Max. 64GB
- Onboard 2.5 GbE
- Supports 3x independent displays from HDMI / DP / VGA / LVDS or eDP
- 4x USB 3.2, 8x USB 2.0, 2x SATA III, 2x COM
- 1x PCI-E(x16), 1x PCI-E(x4), 4x PCI-E(x1) to carrier board
- Digital I/O, TPM (2.0), Watchdog timer

## MI993

### Mini-ITX Motherboard

AMD Ryzen™ Embedded R2000 Series Processors



- AMD Ryzen™ Embedded R2000 series APU onboard
- 2x DDR4 SO-DIMM sockets, Max. 32GB
- Dual Intel® 2.5G LAN
- 2x HDMI + 2x DisplayPort
- 5x USB 3.1, 2x USB 2.0, 4x COM, 1x SATA III
- 1x PCI-E (x8), 3x M.2 (B-key, E-key and M-Key)
- Watchdog timer, Digital I/O, TPM (2.0)

## IoT Gateway Computer

Ruggedized Edge Computer  
with NXP i.MX 8M Plus - ARM Cortex-A53 Quad Processor

### ISR215

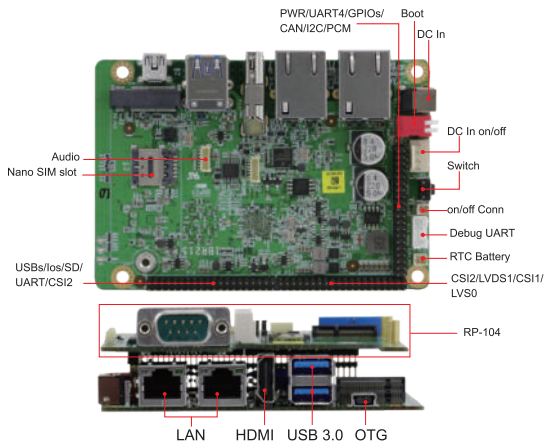


- NXP i.MX 8M Plus - ARM Cortex-A53 Quad processor
- 3GB LPDDR4, 16GB eMMC & SD socket for expansion
- Embedded I/O, USB, HDMI, Ethernet
- Supports M.2 B-Key (3052) for 5G connectivity
- Ruggedized and fanless design

### IBR215 +IBR215-IO

## 2.5" Single Board Computer

Low-Power 2.5" SBC  
with NXP i.MX 8M Plus - ARM Cortex-A53 Quad Processor

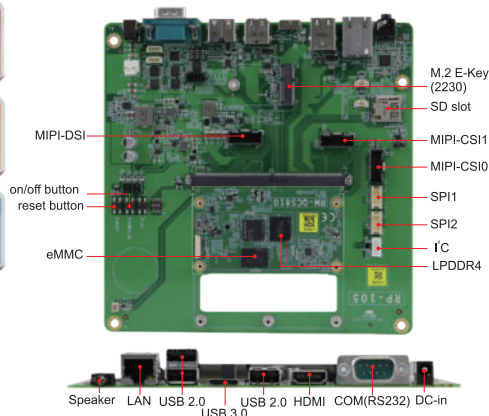


- NXP i.MX 8M Plus - ARM Cortex-A53 Quad Processor
- 3GB LPDDR4, 16GB eMMC & SD socket
- External connectivity for USB, HDMI & Ethernet
- Supports M.2 B-Key (3052) for 5G module, camera, NFC & QR-code functions
- IBR215-IO: Expansion board for wireless, 4G/LTE, LCD, camera, NFC & QR-code functions
- Ruggedized and fanless design

### RM-QCS610 +RP-105

## SMARC Module

Wide-Temperature SMARC 2.1 Module  
with Qualcomm QCS610 Processor



- Qualcomm QCS610 SoC
- Up to 4GB LPDDR4, 32GB eMMC
- Qualcomm Adreno 612 GPU 3D graphics accelerator with 64-bit addressing 845 MHz
- 4K video capture and playback at 30fps
- 3.15 TOPS @Caffe
- Validated with Linux open Bmbedded
- Long life time supply with Qualcomm solution
- Compliant with SMARC™ 2.1
- Carrier board for RM-QCS610 SMARC™ 2.1 CPU module
- Supports 12V~24V DC-in jack, reset, power, LID button, RTC battery
- Supports Gigabit LAN, audio, USB OTG, HDMI, COM (RS232/422/485)
- With Micro SD socket, mPCIe with USB on board
- Supports TTL, HDMI, MIPI-DSI Display, MIPI-CS1 camera