



Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Intel® Atom® x7000E & x7000RE Series / N-series / Core™ i3-N305 processors (formerly Alder Lake-N)
- 1x DDR5-5600 SO-DIMM, dual channel, Max. 16GB (Max data rate DDR5-4800)
- 2x HDMI 2.0 with independent audio output
- Built-in CEC and hardware EDID emulation functions with software setting mode
- Supports PDPC (Peripheral Device Power Control) function
- Supports OOB function via I210IT LAN port (optional)
- 1x M.2 E-Key (2230) for WiFi, Bluetooth options
- 1x M.2 M-Key (2280) for storage
- TPM 2.0 and watchdog timer
- Industrial-grade robust and compact fanless design

Specifications

System Mainboard	MBD212
CPU	Intel® Atom® x7000E & x7000RE Series/ N-series/ Core™ i3-N305 processor (formerly Alder Lake N)
CPU Socket	FCBGA1264
Chipset	Integrated
Memory	1x DDR5 5600 SODIMM / Max. 16GB (Maximum data rate DDR5-4800) (w/o ECC supported)
Graphics	Gen 12 UHD Gfx, up to 32EU
LAN	1x Gigabit LAN
Expansion Slots	1x M.2 2280 socket (M-key, supports NVMe with PCI-E (2x) or SATA) 1x M.2 2230 socket (E-key, supports CNVi) w/ PCI-E(1x) & USB 2.0)
I/O Interface	2x HDMI 2.0b 2x USB 3.2 (USB Type-A) 1x USB (type-C) 1x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connectors for Line out 1x Power button 1x Power jack (+12V DC) 2x LED for power & storage
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.0 kg (2.2 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-key (2280)
Power Supply	50W power adapter
Mounting	Standard system bracket
Dimensions	217mm(W) x 123mm(D) x 22.5mm(H) 8.54"(W) x 4.84"(D) x 0.88"(H)
Operating Temperature	0°C~45°C (32°F~113°F) for SI-212-N -20°C~60°C (-4°F~140°F) for SI-212-N33RE
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus, LVD and VCCI
Operating System	Windows 10 IoT Enterprise, Linux Ubuntu 64-bit

Ordering Information

SI-212-N	Intel® Atom® x7000E Series/ N-series/ Core™ i3-N305 processor, 1x 8GB DDR5-5600 SO-DIMM memory, M.2 256GB and 50W power adapter
SI-212-N33RE	Intel® Atom® x7433RE processor, 1x 8GB DDR5 5600 SO-DIMM memory, M.2 256GB and 50W power adapter

Dimensions

