



## 649.00 EUR

incl. 19% VAT, plus shipping

- Intel Apollo Lake!
- 1x LAN + 2x POE!
- Fanless!
- Modular!



Support: Specifications | Expansion modules | Dimensions

MiTAC's MB1-10AP Embedded Box PC is the next generation box pc with Intel® Apollo Lake processor. The whole new SOC structure packs more powerful capability for your tasks or applications.

The MB1-10AP's 1.5 liter fan-less chassis design and expandable module design give it the flexibility to adapt to every workspace and environment, whether implemented as an Embedded Box PC. Din Rail mount support allows it to be used in factory environment and application. VESA mount support allows for space-saving and rear-mounting on flat-screen displays. Flexibilities also mean a rich array of I/O ports (including 3 x Ethernet RJ45, 4 x USB 3.0, 1 x HDMI, 2 x RS232/422/485, 1 x 3PIN Terminal Block Power Input, 1 x Expansion Socket) to add a variety of peripherals. Storage expandability is supported for high-density hard drives in 2.5" HDD bracket design. Two mPCIe (one shared with mSATA) slots provide the support of SSD and wireless interfaces which allow effortless connection to Wi-Fi and Bluetooth networks, and 4G connectivity. HDMI and one additional expansion display module extend your visual experience with support for dual displays.

## **Optional Modules**

MS-01VGA-D10 VGA Port Expansion Module
MS-01DVI-D10 DVI-D Port Expansion Module
MS-01DPN-D10 DisplayPort Expansion Module
MS-02COM-D10 Expansion Module with 2 x RS232 / 422 / 485
MS-08DIO-T10 Expansion Module with 8-bit Isolated DIDO (4 x DI, 4 x DO)

MB1-10AP (MB1-10AP) Specifications

THERMAL DESIGN **Fanless** Wallmount / 100 mm x 100 mm **MOUNTING** VESA Mount & Din Rail Mount Combo Kit (Optional)) **MECHANICAL** 6.9" x 4.1" x 2.2" (170 x 105 x 57 DIMENSIONS (W X D X H) mm) WEIGHT 1.3kg (2.8 lb) Top cover: Aluminum Alloy / **MATERIAL** Bezel and chassis: Steel Intel® Apollo Lake-M N4200 / CPU N3350 Processor **CHIPSET** Intel® SoC Integrated DDR3L 1866 MHz / 1 x 204-pin SYSTEM MEMORY SO-DIMM / Max. 8GB (Non-ECC) Intel® HD Graphics **GRAPHICS** HDMI 1.4 / Optional **DISPLAY INTERFACE** DisplayPort/VGA/DVI-D by **Expansion Module** 1 x 2.5 HDD / SSD (Default w/ STORAGE SLOT HDD Bracket) / 1 x mSATA 2 x Intel® I210-IT Giga LAN (2 x **ETHERNET** PoE LAN: Optional) / 1 x Realtek RTL8154 LAN (Up to 480Mbps) **AUDIO** Realtek® ALC662 I/O CHIPSET Nuvoton NCT6116D Nuvoton NPCT750AAAYX TPM TPM2.0 (Optional) **SYSTEM** LTE/Wireless: Mini PCIe Full size (USB / PCIe), w/ SIM Card **EXPANSION SLOT** Holder (w/ Full to Half size adapter plate) / Storage: mPCle Full size (USB / PCIe / SATA) **INTERNAL SPEAKER** 1 x Buzzer Power Button / Power LED / HDD **INDICATOR** 1 x HDMI 1.4 / 4 x USB 3.0 / 2 x SMA Antenna (Optional for FRONT I/O WiFi/LTE function) / 1 x Xpansion Module Door / 2 x RS232 / 422 / 485 (Support Power 5V / 12V) 3 x RJ-45 / 1 x Mic-in / 1 x Line-out / 1 x 3-pin Terminal REAR I/O Block Power Input / 2 x SMA Antenna (Optional for WiFi/LTE function) WATCHDOG TIMER 1~255 steps by software program 8~24V Wide Range DC Input w/ **POWER INPUT** POWER REQUIREMENT **Terminal Block Connectivity POWER ADAPTER** Optional

-25°C to 70°C (For non-PoE

SKU) / -25°C to 60°C (For PoE

OPERATING TEMPERATURE SKU) / with 0.7m/s Air Flow and

Wide Temperature

Memory/Storage

OPERATING HUMIDITY 10% ~ 90% R/H

(Non-condensing)

Operating: 5Hz~500Hz / 5Grms /

VIBRATION RESISTANCE 3Axis (w/ SSD, according to

IEC60068-2-64)

Operating: 50 Grms, Half-sine 11

SHOCK RESISTANCE ms Duration (w/ SSD, according

to IEC60068-2-27)

CERTIFICATION CE / FCC Class A

OS SUPPORT Windows® 10 64-bit / Linux

(support by request)

1 x Driver CD / 1 x Quick
Installation Guide / 1 x

Embedded System / 1 x Wall

PACKAGE Mount Brackets (2PCS in 1 set) /

1 x 3 pin Terminal Block Power Connector / 1 x Full to Half Size mPCle Card Adapter Plate

ENVIRONMENTAL

os

PACKING LIST