



1019.00 EUR incl. 19% VAT, plus shipping

- Intel Coffee Lake C246!
- 2x Gigabit LAN!
- 2x RS232/422/485!
- Modular!



Support: Specifications | Expansion modules

MiTAC's MX1-10FEP Fanless Embedded System with support for Intel® Coffee Lake Xeon / Core-i Powerful Processor is the next generation embedded system with Intel® Coffee Lake C246 workstation chipset which can support Xeon and Core-i LGA1151 socket type processor. The excellent performance, powerful processor, OCP/OVP power protection, and expandable design provide the solution for every complicated task and most types of application.

The MX1-10FEP's 7.8 liter fan-less chassis design and expandable module design give it the possibility to implement the complicated tasks and for every workspace and environment. VESA mount holes allow for space-saving and rear-mounting on VESA arms. Flexibilities also mean a rich array of I/O ports (including 2 x Ethernet RJ45, 8 x USB, 1 x HDMI, 1 x DVI-I, 1 x DisplayPort, 2 x COM, PCIe X16 slot, 3PIN Terminal Block Power Input, and 3 x Expansion doors) to add a variety of peripherals. Storage expandability is supported for 3 x high-density hard drives in 2.5" HDD bracket design. Two mPCIe (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. DIO/COM/LAN/PoE/Power Ignitoin expansion modules extend the capability and possibility to be used in more applications.

## **Optional Modules**

MS-48CDN-DT10 Expansion Module with 4 x RS232 / 422 / 485, 8-bit Isolated DIDO (4 x DI, 4 x DO)

MS-04LAN-R10 Expansion Module with 4 x Intel i210-IT Giga LAN, RJ45 Port

MS-04LAN-M10 Expansion Module with 4 x Intel i210-IT Giga LAN, M12 Port

MS-04POE-R10 Expansion Module with 4 x PoE+, Intel i210-IT Giga LAN, RJ45 Port

MS-04POE-M10 Expansion Module with 4 x PoE+, Intel i210-IT Giga LAN, M12 Port

ME-02POE-R10 Expansion Module with 2 x PoE+, Intel i210-IT Giga LAN, RJ45 Port

MS-01IGN-S10 Vehicle Power Ignition Card, 12V/24V and Power ON/OFF Timing Selectable



MX1-10FEP (MX1-10FEP) Specifications

THERMAL DESIGN Fanless
MOUNTING Wallmount

DIMENSIONS (W X D X H) 10.6" x 9.7" x 4.3" (268 x 246 x

WEIGHT 108 mm)

8th Gen Intel® Coffee Lake Xeon

CPU / Core-i LGA1151 Socket

Processor, TDP Max. 80W

CHIPSET Intel® C246

Max. 32GB (Xeon: ECC /

SYSTEM MEMORY

Non-ECC; Core-i: Non-ECC) /
DDR4 2666MHz / 2 x 260-pin

SO-DIMM

GRAPHICS Intel® HD Graphics

DISPLAY INTERFACE DisplayPort 1.2 / DVI-I / HDMI 1.4

 $3 \times 2.5 \text{ HDD} / \text{SSD} (1 \text{ w}/$ 

STORAGE SLOT

Removable HDD Bay, 2 w/
Internal HDD Bracket) / 2 x

mSATA / 1 x M.2 M Key SSD Intel® I219-LM Giga LAN +

ETHERNET I210-IT Giga LAN

AUDIO Realtek® ALC662
I/O CHIPSET Nuvoton NCT6116D

Storage: M.2 2280 / 2260 / 2242 M key (PCle, SATA) / PCle 3.0 X16 slot / Storage/LTE/Wireless:

EXPANSION SLOT 2 x mPCle Full / Half size (USB /

PCIe / SATA), w/ SIM Card Holder / Wireless: M.2 2230 E

key (PCIe, USB)

INTERNAL SPEAKER 1 x Buzzer

INDICATOR DIO LED / LAN1 & 2 ACT /

SPEED / Power LED / HDD LED 1 x HDMI 1.4 / 2 x USB 3.0 / 2 x

FRONT I/O SIM Card Slot w/ Cover / 1 x 2.5"

SATAIII HDD / SSD Bay

1 x DisplayPort 1.2 / 1 x DVI-I / 2 x RJ-45 / 4 x USB 3.1 Gen 2 (10 Gbps) / 2 x USB 2.0 / 1 x PCIe x16 slot / 1 x 2-pin Terminal Block Remote Power Reset / 1 x

3-pin Terminal Block Power Input

/ 1 x 4-pin Terminal Block
External Fan Connector / 1 x

2-pin Terminal Block Remote
Power on / off / 4 x SMA Antenna
(Optional for WiFi/LTE function)
9~48V Wide Range DC Input w/

POWER INPUT

Terminal Block Connectivity

POWER ADAPTER Optional

REAR I/O

**MECHANICAL** 

SYSTEM

POWER REQUIREMENT



35W TDP Processor: -40°C to 70°C / 51~65W TDP Processor: -40°C to 50°C / 71~80W TDP **OPERATING TEMPERATURE** Processor: -40°C to 40°C / with 0.7m/s Air Flow and Wide Temperature Memory/Storage 10% ~ 90% R/H **OPERATING HUMIDITY** (Non-condensing) **ENVIRONMENTAL** 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) CE / FCC Class A / E-mark / CERTIFICATION EN50155 Windows® 10 64-bit / Linux OS **OS SUPPORT** (support by request) 1 x Driver CD / 1 x Quick Installation Guide / 1 x Embedded System / 1 x CPU Cooler (passive) / 1 x Wall Mount Brackets (2PCS in 1 set) / 1 x 3 PACKING LIST **PACKAGE** pin Terminal Block Power Connector / 1 x 4 pin Terminal Block Male Connector / 2 x 2 pin Terminal Block Male Connector / 1 x DVI to VGA converter / 1 x 30 cm SATA & SATA PWR Cable