



998.00 EUR

incl. 19% VAT, plus shipping

- Intel Coffee Lake C246 !
- 2x Gigabit LAN !
- 2x PCIe Slot !
- Modular !



Support: [I/O-Ports](#) | [Datasheet](#) | [Quick Start](#) | [CardOptions](#) | [Manual](#) | [Drawing](#)

MiTAC MX1-10FEP-D 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 powerful processor, OCP/OVP power protection, and expandable I/O design provide the solution for every complicated task and most types of application.

MiTAC's MX1-10FEP-D embedded system 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-D's 8.5 liter chassis design and Xpandable module design give it the possibility to implement the complicated tasks and for every workspace and environment. 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 + X1 slots, 3-pin 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. The reserved space for dual PCIe slots can be used for 1 x GFX Card installation. 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 Ignition expansion modules extend the capability and possibility to be used in more applications.

The MX1-D is now NVIDIA GPU Cloud (NGC) ready for customers to deploy edge AI applications. MX1-D has undergone additional security and remote system management tests, which are fundamental requirements for edge deployments. MX1-D is an ideal system for running the DGX™, providing ease of deployment.

Versatile Xpansion Modules

The versatile Xpansion Module design, offers various I/O functionalities through its lower cost effective modulation, providing all functions within one system. Up to 12 LAN, 10 PoE, 10 COM, 16 DIO, Power ignition Xpansion module for vehicle application.

MS-48CDN-DT10 (4x RS232/422/485, 8-bit Isolated DIO (4x DI, 4x DO))

MS-04LAN-R10 (4x Intel i210-IT Giga LAN, RJ45 Port)

MS-04LAN-M10 (4x Intel i210-IT Giga LAN, M12 Port)

MS-04POE-R10 (4x PoE+, Intel i210-IT Giga LAN, RJ45 Port)

MS-04POE-M10 (4x PoE+, Intel i210-IT Giga LAN, M12 Port)

ME-02POE-R10 (2x PoE+, Intel i210-IT Giga LAN, RJ45 Port)

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

MP-116RCN-P10 (PCIe Riser Card with 1 PCIe 3.0 X16 + 1 PCIe 3.0 X1 Slots (Default))

MP-088RCN-P10 (PCIe Riser Card with 2 PCIe3.0 X8 Slots (Optional))

Edge AI Accelerator

4x Intel® Movidius™ Myriad™ X for Edge AI

MX1-10FEP-D with AI modules powered by Intel® Movidius™ Myriad™ X creates the possibility to be implemented in more Edge AI solutions, for example, traffic flow monitoring and real-time decision, manufacturing yield rate improvement via AI algorithm, remote healthcare service, and efficient transportation.

Maximum AI Cores:

Up to 4x Movidius Myriad X

Support Intel OpenVINO Toolkit

Supported Framework:

TensorFlow, Caffe, MXNET

Supports High Resolution Triple Display

Supports triple independent displays (DP + HDMI + DVI). The HDMI & DisplayPort up to 4K high resolution. The enhanced visual quality responses the demand of being high precise. (Display Port 1.2 (4K@60Hz), HDMI 1.4 (4K@30Hz), DVI-I (FHD@60Hz))

Born for Matching High Efficiency GFX & AI Cards

Maximum GFX Card Dimensions : 145 x 221 x 43 mm

AI / Graphic Card Support List

NVIDIA Quadro P400 (30W)

NVIDIA Quadro P620 (40W)

NVIDIA Quadro P1000 (47W)

NVIDIA Quadro P2200 (75W)

NVIDIA Tesla T4/P4 (75W)

Aetina GTX1050 N1050-J9FX, 2GB (75W)
Leadtek WinFast GTX1030, 4GB (30W)
Leadtek WinFast GTX1650, 4GB (75W)
Leadtek WinFast GTX1660 HURRICANE, 6GB (120W)
Leadtek WinFast GTX1660 SUPER HURRICANE, 6GB (125W)
Leadtek WinFast GTX1660 Ti HURRICANE, 6GB (120W)
(120W GFX Card need to add 2nd AC/DC 12V Adaptor)

Dual PCIe Gen3 Slot for Versatile Expansion

Venting holes design for graphic card thermal air out
PCIe Holder Design (Rugged PCIe holder design for harsh shock & vibration environment)
Dual PCIe Configurations (PCIe 3.0 X16 + PCIe 3.0 X1 Slot as default, 2 x PCIe 3.0 X8 slot as option)

Smart and Simple Integrated Fan Solutions

For High-end GFX Cards
Optional 2 x internal system fan with ventilation air inlet door for high-end GFX cards
For NVIDIA P4/T4 Edge AI Inference
Optional 2 x internal system fan with ventilation air inlet door and smart air duct design for NVIDIA P4/T4 edge AI inference
Easy connect & insert external system fan for the application in extremely harsh environment

Advanced Power Protection

Wide Power Range 9V~48V

Protection

Reverse Power Input Protection
Over Voltage Protection: 58V
Over Current Protection: 15A
ESD Protection: +/-15kV (air), +/-8kV (contact)
Surge Protection: 3kW

-40~70°C Wide Temperature

MX1-10FEP is designed in patented aluminum enclosure not only for aesthetic appearance but also for fan-less application in extreme temperature condition from -40 °C to 70 °C.

MECHANICAL

SYSTEM

POWER REQUIREMENT

ENVIRONMENTAL

OS

PACKING LIST