

MX1-10FE

with Intel Coffee Lake Xeon / Core-i Powerful Processor

Introduction

MiTAC's MX1-10FEP 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'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.





Dimension (mm)





protection





vibration protection

Optional Peripheral

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-04POF-R10



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



Expansion Module

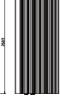
with 4 x PoE+, Intel i210-IT Giga LAN, M12 Port

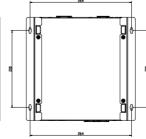
MF-02POF-R10



Expansion Module

with 2 x PoE +, Intel i210-IT Giga LAN, RJ45 Port

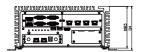






Vehicle Power Ignition Card, 12V/24V and Power ON/OFF Timing Selectable

220W Power Adapter AC to DC, DC24V / 9.2A, 220W* 300W Power Adapter AC to DC, DC24V / 12.5A, 300W*



(Over 40°C need derating by 2.5%/°C). * AC to DC Accessory for industrial application. Not for railay application

Safety Operating: 0~40°C, parctical Operating: -30~60°C

MX1-10FEP

Embedded System

Fanless Embedded System

Operating Humidity 10%~90% R/H (Non-condensing) Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Certification EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	SYSTEM				
System Memory	CPU	8th Gen Intel® Coffee Lake Xeon / Core-i LGA1151 Socket Processor, TDP Max. 80W			
Intel® HD Graphics	Chipset	Intel® C246			
Bipsilon	System Memory	DDR4 2666MHz, 2 x 260-pin SO-DIMM, Max. 32GB (Xeon: ECC; Core-i: Non-ECC)			
Storone Stot	Graphics	Intel® HD Graphics			
Ethernet	Display Interface	HDMI, DisplayPort, DVI-I			
Audio	Storahe Slot				
Vo Chipset	Ethernet	Intel® I219-LM Giga LAN + I210-IT Giga LAN			
TPM	Audio	Realtek® ALC662			
Storage: M.2 2242 / 2260 / 2280 M key (PCle X4 / SATA) Storage/ITF/Wireless: 2 x Mini PCle Full / Half size (USB / PCle / SATA), w/ SIM Card Holder Wireless: M.2 2230 E key (PCle / USB) PCle 3.0 x 16 Indicator	I/O Chipset	Nuvoton NCT6116D			
Storage/ITE/Wireless: 2x x Mini PCIe Full / Half size (USB / PCIe / SATA), w/ SIM Card Holder Wireless: M. 2 220 E key (PCIe / USB) PCIe 3.0 x 16 Indicator	TPM	Nuvoton NPCT750AAAYX			
2 x USB 3.0	Expansion Slot	Storage/LTE/Wireless: 2 x Mini PCIe Full / Half size (USB / PCIe / SATA), w/ SIM Card Holder Wireless: M.2 2230 E key (PCIe / USB)			
Tach Tabel Table	Indicator	Power LED, HDD LED, DIO LED, LAN1 & 2 ACT / SPEED			
FRONT I/O 2 x SIM Card Slot w/ Cover 1 x 2.5" SATAII HDD / SSD Bay 4 x USB 3.1 Gen 2 (Gbps), 2 x USB 2.0, 2 x RJ-45, 1 x DisplayPort 1.2, 1 x DVH, 1 x PS/2 2 x RS232 / 422 / 485 (Support Power 5V / 12V), 1 x Mic-in, 1 x Line-out 1 x 2-pin Terminal Block Remote Power on / off REAR I/O 1 x 2-pin Terminal Block Remote Power on / off 1 x 3-pin Terminal Block External Fan Connector 1 x 3-pin Terminal Block Power Input 4 x SMA Antenna (Optional for WiFi/LTE function) H/W Monitor - Watchdog Timer 1-255 Steps by Software Program POWER REQUIREMENT Power Input 9-48V Wide Rage DC Input w/ Terminal Block Connectivity MECHANICAL Thermal Design Fanless Mounting Wallmount / 100mm x 100mm VESA Mount Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51-80W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Temperature Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-24) Certification EMC: CE & FCC Safety: compliant with LVD, EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark		2 x USB 3.0			
2 x SIM Card Slot W / Cover 1 x 2.5" SATAIII HDD / SSD Bay 4 x USB 3.1 Gen 2 (Gbps), 2 x USB 2.0, 2 x RJ-45, 1 x DisplayPort 1.2, 1 x DVI-I, 1 x PS/2 2 x RS323 / 422 / 485 (Support Power 5V / 12V), 1 x Mic-in, 1 x Line-out 1 x 2-pin Terminal Block Remote Power on / off REAR I/O 1 x 2-pin Terminal Block Remote Power reset 1 x 4-pin Terminal Block External Fan Connector 1 x 3-pin Terminal Block External Fan Connector 1 x 3-pin Terminal Block External Fan Connector 1 x 3-pin Terminal Block Power Input 4 x SMA Antenna (Optional for WiFi/LTE function) H/W Monitor 255 Steps by Software Program POWER REQUIREMENT Power Input 9-48V Wide Rage DC Input w/ Terminal Block Connectivity MECHANICAL Thermal Design Fanless Mounting Wallmount / 100mm x 100mm VESA Mount Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy, Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51-80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humicity 10%-90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-247) Certification EMC: CE & FCC Safety: compliant with EN50155/EN50121/E-mark OS	FDQ.VT.VQ	1 x HDMI 1.4			
### A VSB 3.1 Gen 2 (Gbps). 2 x VSB 2.0, 2 x RJ-45, 1 x DisplayPort 1.2, 1 x DVH, 1 x PS/2 2 x RS232 / 422 / 485 (Support Power 5V / 12V), 1 x Mic-in, 1 x Line-out 1 x 2-pin Terminal Block Remote Power on / off 1 x 2-pin Terminal Block Remote Power on / off 1 x 3-pin Terminal Block External Fan Connector 1 x 3-pin Te	FRONTI/O	2 x SIM Card Slot w/ Cover			
REAR I/O REAR I		1 x 2.5" SATAIII HDD / SSD Bay			
1 x 4-pin Terminal Block External Fan Connector 1 x 3-pin Terminal Block Power Input 4 x SMA Antenna (Optional for WiFi/LTE function) H/W Monitor		2 x RS232 / 422 / 485 (Support Power 5V / 12V), 1 x Mic-in, 1 x Line-out 1 x 2-pin Terminal Block Remote Power on / off			
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H/W Monitor Vatchdog Timer 1-255 Steps by Software Program POWER REQUIREMENT Power Input 9-48V Wide Rage DC Input w/ Terminal Block Connectivity MECHANICAL Thermal Design Fanless Mounting Wallmount / 100mm x 100mm VESA Mount Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51-80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%-90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Certification EMC: CE & FCC Safety: compliant with LVD, EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark		·			
Watchdog Timer POWER REQUIREMENT Power Input 9~48V Wide Rage DC Input w/ Terminal Block Connectivity MECHANICAL Thermal Design Fanless Mounting Wallmount / 100mm x 100mm VESA Mount Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51-80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%-90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60088-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60088-2-27) Certification EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark		4 x SMA Antenna (Optional for WiFi/LTE function)			
POWER REQUIREMENT Power Input 9~48V Wide Rage DC Input w/ Terminal Block Connectivity MECHANICAL Thermal Design Fanless Mounting Wallmount / 100mm x 100mm VESA Mount 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51-80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%-90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) EMC: CE & FCC Safety: compliant with LVD, EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	·	-			
Power Input ### AST Wide Rage DC Input w/ Terminal Block Connectivity #### AST Wide Rage DC Input w/ Terminal Block Connectivity ###################################		1~255 Steps by Software Program			
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Mounting Wallmount / 100mm x 100mm VESA Mount Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51~80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%~90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Certification EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	MECHANICAL				
Dimension 10.6" x 9.7" x 4.3" (268 mm x 246 mm x 108 mm) Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51~80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%~90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Certification EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	Thermal Design	Fanless			
Material Top cover: Aluminum Alloy , Bezel and chassis: Steel ENVIRONMENTAL Operating Temperature 35W TDP Processor: -40°C to 70°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) 51~80W TDP Processor: -40°C to 50°C (with 0.7m/s Air Flow and Wide Temperature Memory/Storage) Operating Humidity 10%~90% R/H (Non-condensing) Vibration Resistance Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) Shock Resistance Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) Certification EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	Mounting	Wallmount / 100mm x 100mm VESA Mount			
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Safety: compliant with LVD,EN60950-1 / EN62368-1 Compliant with EN50155/EN50121/E-mark	Shock Resistance				
	Certification	EMC: CE & FCC Safety: compliant with LVD,EN60950-1 / EN62368-1			
OC Company 10 / A lait 1 in a contract to the					
US SUPPORT WINDOWS® 10 64-DIT, LINUX (SUPPORT BY request)	OS Support	Windows® 10 64-bit, Linux (support by request)			

Ordering Information

Model Number	Chipset	HDMI / DP / DVI-I	USB 3.0 / 2.0	СОМ	LAN	mSATA & mPCle / M.2 E Key / M.2 M Key	Mic-in / Line-out	Power
MX1-10FEP-C246	C246	1/1/1	6/2	2	2	1/1/1	1 / 1	9~48V Wide Rage DC Input w/ Terminal Block Connectivity

Packing List

Packing					
• 1 x MX1-10FEP Box PC	 1 x 3-pin Terminal Block Power Connector 	• 1 x 4-pin Terminal Block Power Connector			
 1 x CPU Cooler (passive) 	 1 x DVI to VGA converter 	• 1 x Wall Mount Bracket			
• 1 x Screw Pack (For HDD)	 2 x 2-pin Terminal Block Power Connector 	• 1 x Driver CD			