MXE-200/200i Series

Intel® Atom™ Processor-Based Ultra Compact Embedded Platform

Features

- Intel® Atom™ SoC processor E3845/E3826
- Extremely compact: 120 (W) x 100 (D) x 55 (H) mm
- Rich I/O:
  - 1x HDMI, 2x USB 2.0 + 1x USB 3.0, 2x GbE ports, optional 4 isolated DI/O
  - 2x Mini PCIe slots (one supporting mSATA), 1x USIM slot,1x SDIO
- Optional DIN-rail / wall mounting
- Built-in ADLINK SEMA Cloud solution
- Full support Intel® IoT Gateway



Introduction

ADLINK's new Matrix MXE-200/200i ultra-compact embedded platform, based on the Intel® Atom™ SoC processor E3845/E3826, delivers optimum I/O design for maximum connectivity. A full aluminum alloy enclosure with industry-class construction makes the MXE-200/200i the embedded system of choice for industrial automation and applications demanding reliability in harsh environments. Combined with ADLINK's embedded SEMA Cloud solution, the MXE-200/200i delivers leading manageability and robustness. In addition, the MXE-200i fully supports the Intel® IoT Gateway, integrated Wind River® Intelligent Device Platform XT, and McAfee Embedded Control, guaranteeing essential manageability and security demanded by IoT-ready platforms.

With dual GbE LAN, two COM, two USB 2.0 and one USB 3.0 host ports, and optional four isolated DI and four isolated DO w/interrupt support, dual Mini PCIe slots with one mSATA support and USIM socket support communication with connections via Wi-Fi, BT, 3G, and LTE, the MXE-200/200i enables seamless interconnection, ensuring interoperability between systems. Matrix's proven rugged construction assures operation in harsh environments with operating shock tolerance up to 100 G and extended operating temperatures of -20°C to 70°C available.

With implementation of ADLINK's proprietary SEMA Cloud tool, the MXE-200/200i brings superior manageability and security for a world of applications, realizing efficient remote monitoring of system activity and health in real time, system control over a robust secured channel, and complete, fully manageable utilization of system resources.

The MXE-200/200i presents an intelligent, robust embedded system supporting wide application development and easy service deployment, for outstanding performance in Intelligent Transportation, Facility Management, Industrial Automation, and Internet of Things (IoT) applications.

Software Support

- Windows Embedded 7 Standard
- Windows 10 IoT Enterprise CBB
- Wind River® IDP XT 3.1 (MXE-200i only)

Ordering Information

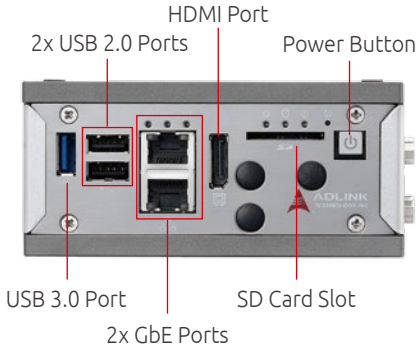
- **MXE-201**
  Quad-core E3845, 2GB SDRAM
- **MXE-202**
  Dual-core E3826, 2GB SDRAM
- **MXE-202i-MI31**
  Dual-core E3826, 2 GB SDRAM, 8 GB SD card, pre-loaded WR IDP XT 3.1
- **MXE-201D**
  Quad-core E3845, 2 GB SDRAM, isolated 4x DI/ 4x DO
- **MXE-202D**
  Dual-core E3826, 2 GB SDRAM, isolated 4x DI/ 4x DO

Optional Accessories

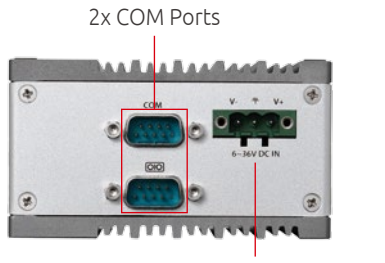
- **8/16 GB SD Option**
  Factory installed 8/16 GB MLC type industrial grade SD (-40°C to 85°C) (-40˚F to 185˚F)
- **32/64 GB mSATA SSD Option**
  Factory installed 32/64 GB MLC type industrial grade mSATA SSD (-40°C to 85°C) (-40˚F to 185˚F)
- **40 W AC Adapter**
  40 W industrial grade AC-DC adapter (-20°C to 70°C) (-4˚F to 158˚F)
- **Wireless Module Option**
  Wi-Fi/BT/3G/LTE wireless modules
- **Extended Temperature Option***
  Optional screening service extends operating temperatures of the MXE-201 to -20°C to 60°C (-4˚F to 140˚F) and MXE-202/202i to -20°C to 70°C (-4˚F to 158˚F)
- **DI/O Kit(P/N: 91-95216-0010)**
  1x cable for 4x DI/ 4x DO, modified right cover of chassis

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Product Illustration



Front view of MXE-200/200i



Right side view of MXE-200/200i

Specifications

Model Name	MXE-201	MXE-202	MXE-202i
System Core			
Processor	Intel® Atom™ E3845	Intel® Atom™ E3826 Dual Core Processor	
Video	1x HDMI		
Memory	Soldered DDR3L 1066 2 GB SDRAM (Up to 4 GB)		
I/O Interface			
Ethernet	2x GbE LAN (Intel® I210-IT)		
Serial Port	2x COM (1x RS-232 + 1x RS-232/422/485**)		
USB	2x USB 2.0 host port + 1x USB 3.0		
DIO	Optional 4x Isolated DI + 4x Isolated DO		
Expansion			
Mini PCIe	2x Mini PCIe slots		
USIM	1x USIM slot		
Manageability			
WDT	Watch Dog Timer support		
SEMA	SEMA support with BMC		
Power Supply			
DC Input	6-36 V_{DC}		
AC Input	Optional 40 W AC-DC adapter		
Storage Device			
mSATA	1x mSATA (shared with Mini PCIe)		
SD	1x SD card slot (up to 16 GB)		8 GB SD card
OS Preload	-	-	Wind River® IDP XT 3.1
Mechanical			
Dimensions	120 (W) x 100 (D) x 55 (H) mm (4.68" x 3.9" x 2.17")		
Construction	Full Aluminum Alloy		
Weight	650 g (1.43 lbs)		
Mounting	DIN-Rail / Wall mounting		
Environmental			
Operating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option*: -20°C to 60°C (-4°F to 140°F) (w/ industrial SD/mSATA SSD)	Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option*: -20°C to 70°C (-4°F to 158°F) (w/industrial SD/mSATA SSD)	
Storage Temperature	-40°C to 85°C (-40°F to 185°F)		
Humidity	~95% @ 40°C (non-condensing)		
Vibration	Operating 5 Grms, 5-500 Hz, 3 axes w/ SD/mSATA SSD		
ESD	Contact +/-4 KV, Air +/-8 KV		
Shock	Operating 100 G, half sine 11 ms duration w/ SD/mSATA SSD		
EMC	CE & FCC Class A (EN61000-6-4/EN61000-6-2)		
Safety	UL by CB		

*Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device
** RS-232 supports Tx, Rx,CTS, and RTS signal only

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MXE-200/200i with Antenna



The MXE-200/200i is easily installed in popular mounting configurations, including DIN rail and wall mounting.

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