

MXE-201

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
- Built-in ADLINK SEMA Cloud solution
- Full support Intel® IoT Gateway

Introduction

ADLINK's new Matrix MXE-201 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-201 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-201 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-201 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-201 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-201 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.



Optional GPS and 4G/LTE module **4G LTE**

Software Support

- Windows Embedded 7 Standard
- Wind River® IDP XT (MXE-200i only)



Specification

Model Name	MXE-201
System Core	
Processor	Intel Atom E3826 Dual Core Processor
Chipset	Atom Chipset
Video	1x HDMI
Memory	DDR3L 1066 2 GB
I/O Interface	
Expansion Slot	2x Mini PCIE Slots 1x USIM
Ethernet	2x GbE LAN (Intel I210-IT)
Serial Ports	2x COM (1x RS232 + 1x RS-232,422,485)
USB	1x USB 2.0 + 1x USB 3.0
Power Supply	
DC Input	6-36 VDC
	Optional 40W AC-DC Adapter
Storage	
HDD	1x mSATA (same slot with Mini PCIE) 2x SD card slot (up to 16GB) Wind River IDP XT 2.0 OS Preloaded (Only for MXE-200i)
Mechanical	
Dimensions	120 (W) x 100 (D) x 56 (H) mm (4.68" x 3.9" x 2.17")
Construction	Full Aluminum Alloy
Weight	650 g (1.43lbs)
Mounting	DIN-Rail / Wall mounting
Environmental	
Operating Temperature	Standard 0° - 50° (32° F to 122° F) Extended Temperature Option -20 C° to 60° C (-4° to 140° F) with Industrial SSD/mSATA SSD)
Storage Temperature	-40° - 85° (-40° F to 185° F)
Humidity	95% @ 40° (non-condensing)
Vibration	Operating 5 Grms, 5-500 Hz, 3 axes w/ SD/mSATA SSD
ESD	Contact +/-4 KV, Air +/-8 KV
Shock	Operating 100G, half sine 11 ms duration w/ SD/mSATA SSD
EMC	CE & FCC Class A (EN61000-6-4/EN61000-6-2)
Safety	UL by CB