MXE-1300 Series

Intel® Atom™ D2550/ N2600 Processor-based Fanless Embedded Computer with Rich I/O

Features

- Intel® Atom™ D2550/N2600 processor + NM10 chipset
- 2 software-programmable RS-232/422/485 + 2 RS-232 ports
- 3 1000/100/10 Mbps Ethernet ports, 6 USB 2.0 ports, 4 digital input and output
- 1 external CF slot and 1 internal PCIe Mini Card socket with USIM slot
- Built-in wide-range DC power input
  • 6 VDC to 36 VDC
- Rugged, -20°C to 70°C (-4˚F to 158˚F) fanless operation (w/ industrial SSD)



Software Support

- Windows 7/Embedded 7 (32 bit)
- Windows XP/XP Embedded**

** XP support with limitation, please check website for details.

Introduction

The Matrix MXE-1300 is base on the Intel® Atom™ D2550/N2600 processor, providing excellent computing performance and outstanding power conservation.

Three Intel® Gigabit Ethernet ports deliver abundant support for a variety of internet/ intranet applications, and four digital I/O ports maximize flexibility for inter-device communication. An internal PCI Express Mini Card socket and USIM slot support extension functions, such as wireless connection (3G/WiFi/BT/GPS), video capture, Secure Access Modules (SAM), and others.

With its ruggedized architecture and rich I/O, the MXE-1300 is the best choice for industrial automation/ intelligent transportation systems, facility management, and applications demanding reliability in harsh environments.

Applications

- Factory Automation / Industrial Automation
- Intelligent Transportation Systems
- Mobile Surveillance
- Facility Management
- Environment Monitoring
- SCADA / CIM

Ordering Information

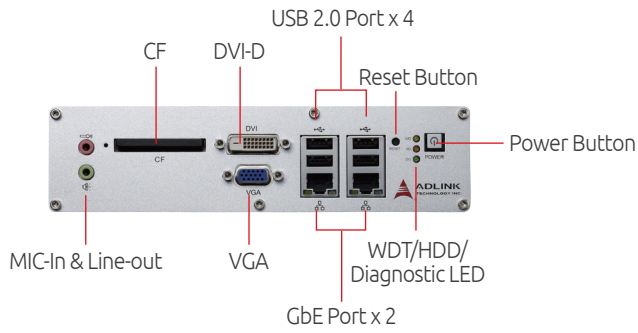
- **MXE-1301**
  Intel® Atom™ D2550 fanless embedded computer
- **MXE-1302S**
  Intel® Atom™ N2600 fanless embedded computer

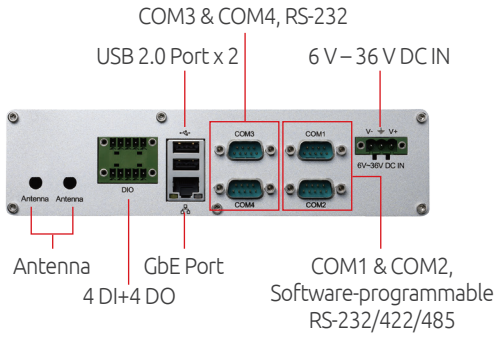
Optional Accessories

- **4 GB DDR3 Upgrade**
  Upgrade to 4 GB DDR3 memory
- **500 GB HDD Option**
  Factory-installed 500 GB SATA hard disk drive (0°C to 60°C , 32˚F to 140˚F)
- **32 GB SSD Option**
  Factory-installed 32 GB MLC SA TA solid-state drive (0°C to 70°C , 32˚F to 158˚F)
- **8 GB Industrial SSD Option**
  Factory-installed 8 GB SLC industrial grade SA TA solid state drive (-40°C to 85°C , -40˚F to 185˚F)
- **90 W AC-DC Adapter**
  90 W commercial grade AC-DC adapter (0°C to 50°C, 32˚F to 122˚F)
- **Extended Temperature Option***
  Optional screening service to extend the operating temperature of the MXE-1300 series to -20°C to 70°C (-4˚F to 158˚F)

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Product Illustration





Specifications

Model Name	MXE-1301	MXE-1302
System Core		
Processor	Intel® Atom™ D2550 1.86GHz CPU	Intel® Atom™ N2600 1.6GHz CPU
Chipset	Intel® NM10	Intel® NM10
Video	VGA+DVI dual display, supports 1920 x 1200 resolution	
Memory	2 GB DDR3 1066 MHz SODIMM module (Up to 4 GB support)	2 GB DDR3 800 MHz SODIMM module
I/O Interface		
Ethernet	3 GbE ports (3x Intel® 82574L)	
Serial Ports	4 COM ports (2 software-programmable RS-232/422/485, and 2 RS-232)	
USB	6 USB 2.0 ports	
DI/O	4 digital input and output	
Audio	1 mic-in and 1 line-out	
Mini PCIe	1 internal mini PCIe card socket	
USIM	1 USIM socket for 3G communication	
WDT	Watchdog timer support	
Power Supply		
DC Input	Built-in 6-36 VDC wide-range DC input	
AC Input	Optional 80 W external A C-DC adapter for A C input	
Storage Device		
SATA Storage	1 onboard SATA-II port for 2.5” HDD/SSD installation	
CompactFlash	1 external type I CF socket, supports PIO/DMA modes	
Mechanical		
Dimensions	210 mm (W) x 170 mm (D) x 53 mm (H) (8.3” x 6.75” x 2.1”)	
Weight	1.8 kg (3.98 lbs)	
Mounting	VESA 100 hardware kit for wall-mounting	
Environmental		
Operating Temperature*	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 SSD or CF) (MXE-1300 series)	
Storage Temperature	-40°C to 85°C (-40˚F to 185˚F) (excl. HDD/SSD/CF)	
Humidity	~95% @ 40°C (non-condensing)	
Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CF or SSD) Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD)	
ESD	Contact +/-4 KV and Air +/-8 KV	
Shock	Operating, 100 G, half sine 11 ms duration (w/ CF or SSD)	
EMC	CE and FCC Class A	

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