

▶ MXE-1300 Series

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



Introduction

The Matrix MXE-1300 is based 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.

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)

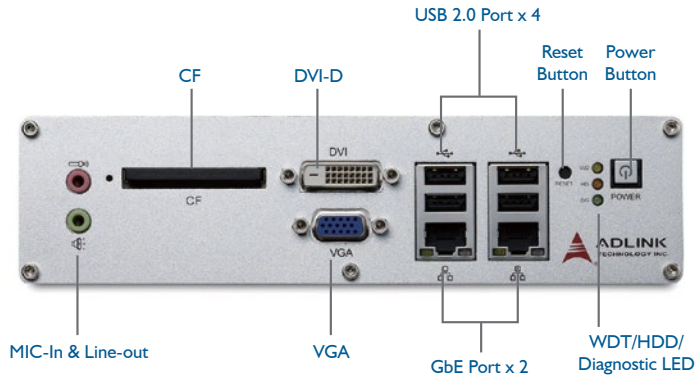
Applications

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

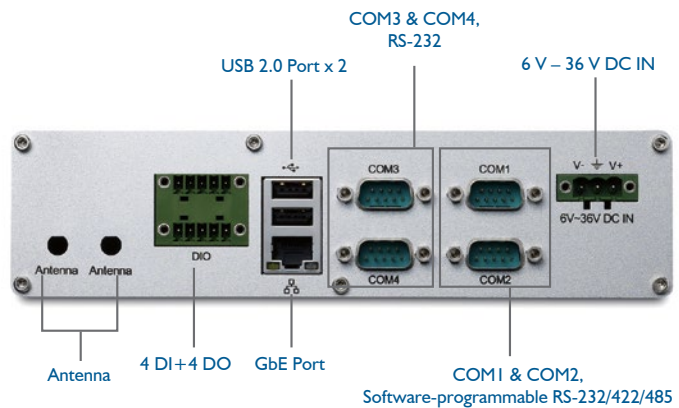
Software Support

OS Information

- Windows 7/Embedded 7 (32 bit)
 - Windows XP/XP Embedded**
- ** XP support with limitation, please check website for details.



MXE-1300 Series Front Panel



MXE-1300 Series Back Panel

*Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device.

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	
■ 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 AC-DC adapter for AC 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	

Ordering Information

Model Name	Description	Storage Support	COM Ports	DI/O	GbE	USB	Memory
MXE-1301	Intel® Atom™ D2550 fanless embedded computer	2.5" HDD/SSD	4	4	3	6	2 GB
MXE-1302	Intel® Atom™ N2600 fanless embedded computer	2.5" HDD/SSD	4	4	3	6	2 GB

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 SATA 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 SATA 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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