

# MXE-1400 Series

## Intel® Atom™ E3845 Processor-Based Fanless Embedded Computer

### Features

- Quad-Core Intel® Atom™ E3845 processors
- Single side I/O with easy access SATA drive bay
- Compact 210 (W) x 170 (D) x 70 (H) mm housing
- Built-in ADLINK SEMA management solution
- Rugged construction delivering fanless -40°C to 70°C operability (w/industrial SODIMM & SSD) \*
- Rich I/O :
  - DVI-I+DisplayPort, 6x USB 2.0, 1x USB 3.0, 3x GbE,
  - 6x COM ports, 16x isolated DI/O
  - 1x SATA-II (3.0 Gb/s) port, 2x mPCIe slots



### Introduction

ADLINK's new Matrix MXE-1400 series of rugged quad-core fanless computers, feature the latest generation of Intel® Atom™ E3845 processors, delivering outstanding performance with minimum power consumption.

The MXE-1400 series accommodates rich I/O interfaces in a compact system size, including DisplayPort, DVI-I (with both DVI and VGA signals), three GbE by Intel network interface controllers, six USB 2.0, one USB 3.0 with dedicated bandwidth, 8 isolated DI/O, and six COM ports, four of which are BIOS-configurable among RS-232/422 and 485 with auto flow. In addition, with a 2.5" SATA drive bay and CFast port, easy, versatile connection to a wide range of applications is enabled. Dual mini PCIe slots and USIM socket empower the MXE-1400 as a communications hub for a variety of wireless connections, such as BT/WiFi and 3G.

Leveraging proprietary mechanical engineering, the MXE-1400 series continues to offer all the popular features of the Matrix E series, including cable-free construction, wide operating temperature ranges, and 5 Grms vibration resistance, having undergone, like all ADLINK Matrix devices, rigorous testing for operational verification.

Combining superior processor performance, wireless capability, and rich, scalable I/O in a compact and robust package, the ADLINK MXE-1400 is an ideal choice for a wide range of applications supporting intelligent transportation, in-vehicle multimedia, and surveillance and factory automation applications.

### Software Support

- **OS Support**  
Windows® 7 professional / Embedded  
Win10 IoT Enterprise (supported by custom BIOS)  
Linux

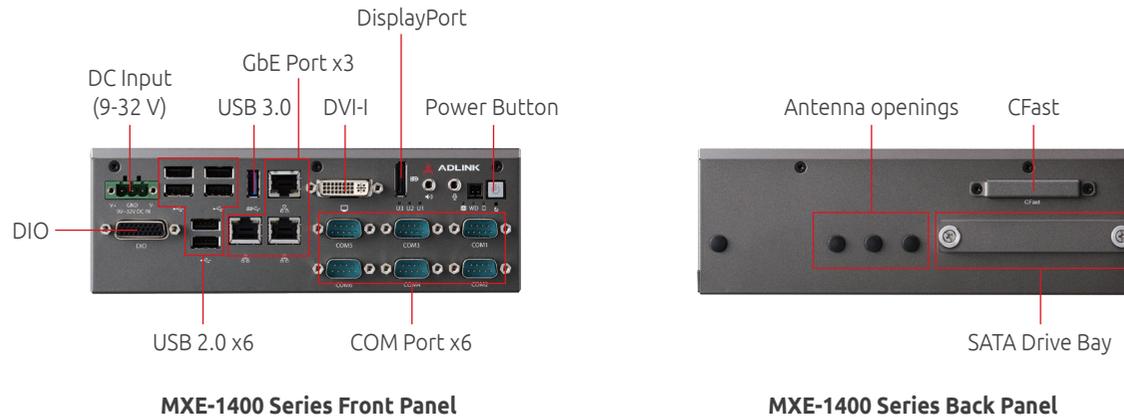
### Ordering Information

- **MXE-1401**  
2GB SODIMM
- **MXE-1401/M4G**  
4GB SODIMM
- **MXE-1401/M8G**  
2pcs 4GB SODIMM
- **MXE-1401/ETM4G**  
4GB industrial SODIMM
- **MXE-1401/ETM8G**  
2pcs 4GB industrial SODIMM

### Optional Accessories

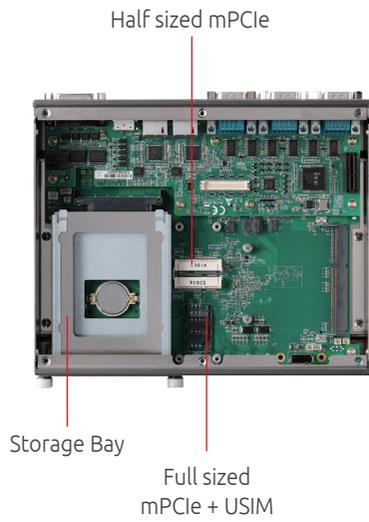
- **HDD/ SSD/ CFast**
- **Wireless Module Option**  
WiFi/BT/Zigbee/3G/LTE wireless modules kit

## Product Illustration



## Specifications

Model Name	MXE-1401
<b>System Core</b>	
Processor	Quad-Core Intel® Atom™ SoC processor E3845
Memory	DDR3L1600 2 GB (up to 8 GB)
<b>Graphic Output</b>	
Display Port	1x DisplayPort
DVI / VGA	1x DVI-I
<b>I/O Interface</b>	
Ethernet	3x GbE (Intel® I211)
Serial	6x COM (2x RS-232 + 4x RS-232/422/485)
USB	6x USB 2.0 + 1x USB 3.0 + 1 internal USB 2.0 dongle
DI/O	Isolated 8 DI + 8 DO
Audio	Mic-in / Line-out
<b>Expansion</b>	
Mini PCIe	2x PCIe mini card slot (one full size, another half size)
USIM	1x USIM Slot
<b>Manageability</b>	
WDT	Watch Dog Timer supported
SEMA	SEMA support with BMC
<b>Power Supply</b>	
DC Input	9-32V <sub>DC</sub>
AC Input	Optional 80 W AC/DC adapter
<b>Storage Device</b>	
SATA Storage	1x 2.5" SATA removable drive bay
CompactFlash	1x CFAST™ socket
<b>Mechanical</b>	
Dimensions	210 (W) x 170 (D) x 70 (H) mm
Weight	2 kg (4.42 lbs)
Mounting	Wallmount kit
<b>Environmental</b>	
Operating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option*: -40°C to 70°C (-40°F to 158°F) (w/ industrial SODIMM & SSD)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	Approx. 95% @40°C (non-condensing)
Vibration	Operating 5Grms, 5-500 Hz, 3 axes w/ SSD; Operating 0.5Grms, 5-500 Hz, 3 axes w/ HDD
ESD	Contact +/- 6KV, Air +/- 10KV
Shock	Operating 100G, half sine 11 ms duration w/ SDD; Operating 20G, half sine 11ms w/ HDD
EMC	CE & FCC Class A
Safety	UL [by CB]



**Rich I/O Enables Seamless Interconnection**



**MXE-1400 with Antenna**