

MXE-1400 Series

Intel Atom® E3845 SoC Fanless Embedded Computer

Features

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



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

Linux Ubuntu 12.04 LTS/ 14.04 LTS/ 16.04 LTS Fedora 20 x64/ 20 x86

Ordering Information

MXE-1401
 Intel® Atom™ E3845 Fanless Embedded
 Computer

Optional Accessories

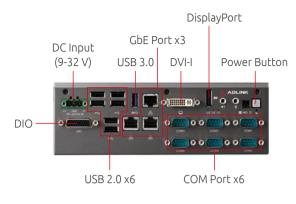
500 GB HDD
 Factory-installed 500 GB SA

Factory-installed 500 GB SATA hard disk drive $(0^{\circ}\text{C to }50^{\circ}\text{C}, 32^{\circ}\text{F to }122^{\circ}\text{F})$

- 32/64 GB SSD Option
 Factory-installed 32/64 GB MLC SATA solid-state drive (0°C to 70°C, 32°F to 158°F)
- Wireless Module Option
 WiFi/BT/3G wireless modules kit



Product Illustration



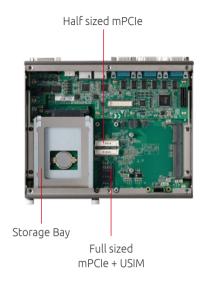


MXE-1400 Series Front Panel

MXE-1400 Series Back Panel

Specifications

| Specificacions | |
|------------------------|---|
| Model Name | MXE-1401 |
| System Core | |
| Processor | Quad-Core Intel [®] Atom™ SoC processor E3845 |
| Memory | DDR3L1600 2 GB (up to 8 GB) |
| Graphic Output | |
| Display Port | 1x DisplayPort |
| DVI / VGA | 1x DVI-I |
| I/O Interface | |
| 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 |
| Expansion | |
| Mini PCle | 2x PCIe mini card slot (one full size, another half size) |
| USIM | 1x USIM Slot |
| Manageability | |
| WDT | Watch Dog Timer supported |
| SEMA | SEMA support with BMC |
| Power Supply | |
| DC Input | 9-32V _{DC} |
| AC Input | Optional 80 W AC/DC adapter |
| Storage Device | |
| SATA Storage | 1x 2.5" SATA removable drive bay |
| CompactFlash | 1x CFast™ socket |
| Mechanical | |
| Dimensions | 210 (W) x 170 (D) x 70 (H) mm |
| Weight | 2 kg (4.42 lbs) |
| Mounting | Wallmount kit |
| Environmental | |
| 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) |
| | Operating 5Grms, 5-500 Hz, 3 axes w/ SSD; |
| Vibration | Operating 0.5Grms, 5-500 Hz, 3 axes w/ HDD |
| ESD | Contact +/- 6KV, Air +/- 10KV |
| Shock | Operating 100G, half sine 11 ms duration w/ SSD; |
| | Operating 20G, hafl sine 11ms w/ HDD |
| EMC | CE & FCC Class A |
| Safety | UL [by CB] |





Rich I/O Enables Seamless Interconnection

MXE-1400 with Antenna

