

MXE-1401

Intel® Atom™ E3845 Processor-Based Fanless Embedded

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



Optional GPS and 4G/LTE module 

Introduction

ADLINK's new Matrix MXE-1401 of rugged quad-core fanless computers, feature the latest generation of Intel® Atom™ E3845 processors, delivering outstanding performance with minimum power consumption.

The MXE-1401 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-1401 as a communications hub for a variety of wireless connections, such as BT/WiFi and 3G.

Leveraging proprietary mechanical engineering, the MXE-1401 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-1401 is an ideal choice for a wide range of applications supporting intelligent transportation, in-vehicle multimedia, and surveillance and factory automation applications.

Software Support

- Windows® 7 Professional / Embedded
- Windows® 10 IoT Enterprise (supported by custom BIOS)
- Linux



Specification

Model Name	MXE-1401
System Core	
Processor	Quad-Core Intel® Atom™ SoC processor E3845
Chipset	Atom Chipset
Video	1x DisplayPort and 1 x DVI
Memory	DDR3L1600 2 GB (up to 8 GB)
I/O Interface	
Expansion Slot	2x Mini PCIE Slots 1x USIM
Ethernet	3x GbE (Intel® I211)
Serial Ports	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
Power Supply	
DC Input	9-32VDC
AC Input	Optional 80W AC-DC Adapter
Storage	
HDD	1x 2.5" SATA removable drive bay 1x CFast™ socket
Mechanical	
Dimensions	210 (W) x 170 (D) x 70 (H) mm (8.26" x 6.69" x 2.75")
Construction	Full Aluminum Alloy
Weight	2 kg (4.42 lbs)
Mounting	Wall mounting
Environmental	
Operating Temperature	Standard: 0°C to 50°C (32°F to 122°F) Extended Temperature Option -20 C° to 70° C (-40° F to 158° F) with Industrial 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 (2)
Safety	UL by CB