MXE-5400 Series

Powerful 4th Generation Intel® Core™ i7 Processor-Based Fanless Embedded Computer

Features

- Equipped with 4th generation Intel® Core™ i7-4700EQ processor
- Intel® Quick Sync Video technology supported with ADLINK MSDK+
- Intel® vPro™ technology for security and manageability (iAMT™ 9.0, TPM 1.2, TXT, Intel® VT™)
- Built-in ADLINK SEMA 2.2 (Smart Embedded Management Agent)
- Rich I/O :
  - DVI-I+2x DisplayPorts, 6x USB 3.0, 4x GbE ports, 8x isolated DI/O
  - 2x SATA-III (6.0 Gb/s) ports, 2x mPCIe slots (one supporting mSATA SSD)
- Rugged design for -20ºC to 60ºC fanless operation (w/industrial SSD)



Applications

- Intelligent Transportation Systems
- Digital Security & Surveillance
- Facility Management in Critical Infrastructures
- Building Automation Systems
- In-Vehicle Infotainment Systems
- Factory/Machine Automation

Introduction

ADLINK's new Matrix MXE-5400 series of rugged designed quad-core fanless computers, featuring the latest 4th generation Intel® Core™ i7-4700EQ processor (Formerly Haswell) delivers outstanding processor performance with minimum power consumption. Intel's Quick Sync Technology and Core IPG equip the MXE-5400 with market-leading performance boost in image/video related applications.

With the implementation of Intel® vPro™ (iAMT™ 9.0, TXT, TPM 1.2, Intel VT) technology and ADLINK's proprietary SEMA (Smart Embedded Management Agent) tool, the MXE-5400 maximises manageability and security for a world of applications. Together they provide efficient remote monitoring of system activity and health in real time, system control over a robust secured channel, and fully manageable complete utilization of system resources.

The MXE-5400 series accommodates rich I/O interfaces in a compact system size, offering versatile connection to a wide range of applications. Dual mini PCIe slots and USIM socket empower the MXE-5400 to act as a communications hub for a variety of wireless connections, such as BT/WiFi and 3G. One of the two slots is configurable to a mini SATA interface, cooperating with internal SATA storage to deliver RAID 0/1/5 functionality.

Leveraging proprietary mechanical engineering, the MXE-5400 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. The entire ADLINK Matrix line undergoes rigorous testing for operational verification.

Combining superior processor performance, security and manageability, superior wireless capability, and rich I/O, in a compact and robust package, the ADLINK MXE-5400 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 / 7 Embedded
• Linux*

*Linux Distribution by Request

Ordering Information

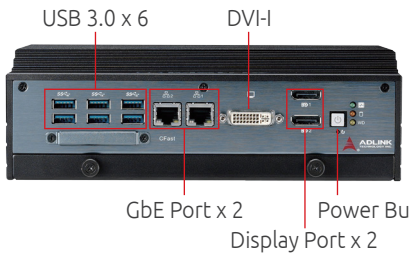
- **MXE-5401**
  Intel® Core™ i7-4700EQ fanless embedded computer
- **MXE-5402**
  Intel® Core™ i5-4400E fanless embedded computer
- **MXE-5403**
  Intel® Core™ i3-4100E fanless embedded computer

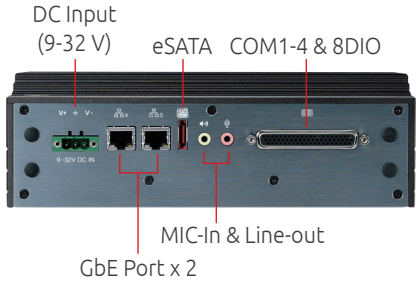
Optional Accessories

- **8/16 GB DDR3L Upgrade**
  Upgrade to 8/16 GB DDR3L memory
- **500 GB HDD Option**
  Factory-installed 500 GB SATA HDD (0 to 50°C) (32 to 122°F)
- **32/64 GB SSD Option**
  Factory-installed 32/64 GB MLC industrial grade SSD (-20 to 70°C) (-4 to 158°F)
- **160 W AC-DC Adapter**
  160 W industrial grade AC-DC adapter (-20 to 70°C) (-4 to 158°F)
- **Wireless Kit Option**
  3G/WiFi/BT/GPS wireless kit
- **Extended Temperature Option***
  Optional screening to extend the operating temperature of the MXE-5401 to -20 to 60°C (-4 to 140˚F) and MXE-5402/5403 to -20 to 70°C (-4 to 158˚F)

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Product Illustration





Specifications

Model Name	MXE-5401	MXE-5402	MXE-5403
System Core			
Processor	Intel® Core™ i7-4700EQ 2.4 GHz processor	Intel® Core™ i5-4400E 2.7GHz processor	Intel® Core™ i3-4100E 2.4GHz processor
Chipset	Intel QM87		
Video	Support for up to 3 independent displays, 1 x DVI-I + 2 x DisplayPort		
Memory	DDR3L 1600 SODIMM 4 GB (up to 16 GB)		
I/O Interface			
Ethernet	4x GbE (3x Intel® I210IT + 1x I217LM PHY)		
Serial Ports	4x COM (2x RS-232 + 2x RS-232/422/485)		
USB	6x USB 3.0 (4x 1600 mA) + 1x USB 2.0		
DIO	8x DI + 8x DO w/ 1.5 kv isolation		
Audio	1x Audio In + 1x Line Out		
Expansions			
Mini PCIe	2x PCIe mini card slots w/ 1x mSATA support (jumper select)		
USIM	1x USIM slot for 3G communication		
Manageability			
WDT	Hierarchical WDT supported		
SEMA	SEMA 2.2 (Smart Embedded Management Agent)		
Power Supply			
DC Input	9-32 V_{DC}		
AC Input	optional 160W AC-DC adapter		
Storage Device			
SATA Storage	2 onboard SATA III for 2 x 2.5" HDD/SSD installation with RAID support		
CompactFlash	1x type II CFast slot		
eSATA	1x eSATA		
Mechanical			
Dimensions	230 (W) x 205 (D) x 75 (H) mm (9" x 8" x 2.9")		
Weight	3.8 kg (8.39 lbs)		
Mounting	Wall mount kit		
Environmental			
Operating Temperature*	Standard: 0°C to 50°C (32˚F to 122˚F) MXE-5401 : Extended temperature option*:: -20°C to 60°C (-4˚F t o 140˚F) (w/industrial SSD or CFast) MXE-5402/5403: Extended temperature option*::-20°C to 70°C (-4˚ F to 158˚F) (w/industrial SSD or CFast)		
Storage Temperature	-40°C to 85°C (-40°F to 185°F)		
Humidity	~95% @ 40°C (non-condensing)		
Vibration	Operating 5Grms, 5-500 Hz, 3 axes w/ CF or SSD Operating 0.5Grms, 5-500 Hz, 3 axes w/ HDD		
ESD	Contact +/- 4kV, Air +/- 8kV		
Shock	Operating 100G, half sine 11 ms duration w/ CF or SSD Operating 20G, half sine 11ms duration. w/ HDD		
EMC	CE & FCC Class A		
Safety	UL, CB		

ADLINK

www.adlinktech.com

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