

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 -20°C to 60°C fanless operation (w/industrial SSD)



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.



Applications

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

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

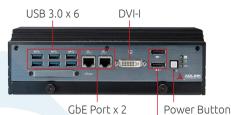
Optional Accessories

- 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



Sp Mo Sys

Safety

c	Display Port x 2 GbE Port x 2
Specifications	
Model Name	MXE-5401 MXE-5402 MXE-5403
System Core	
Processor	Intel [®] Core™ i7-4700EQ 2.4 GHz processor Intel [®] Core™ i5-4400E 2.7 GHz processor Intel [®] Core™ i3-4100E 2.4 GHz 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 PCle	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) × 205 (D) × 75 (H) mm (9" × 8" × 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

DC Input (9-32 V)

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eSATA COM1-4 & 8DIO

MIC-In & Line-out

UL, CB



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