

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 mPCle 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

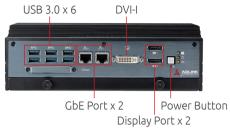
Ordering Information

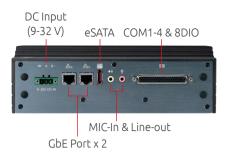
- MXE-5401
 Intel® Core™ i7-4700EQ fanless embedded computer
- MXE-5402
 Intel[®] Core[™] i5-4400E fanless embedded computer
- MXE-5403
 Intel[®] Core[™] i3-4100E fanless embedded computer

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)

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 2.7 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	SEN	MA 2.2 (Smart Embedded Management Ag	ent)	
Power Supply				
DC Input	9-32 V _{DC}			
AC Input	optional 160W AC-DC adapter			
Storage Device				
SATA Storage	2 onboard SA	TA III for 2 x 2.5" HDD/SSD installation with	n 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				
		Standard: 0°C to 50°C (32°F to 122°F)		
Operating Temperature*		rature option*:: -20°C to 60°C (-4°F t o 140 perature option*:: -20°C to 70°C (-4°F to 1		
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			

