

MXE-5500 Series

6th Generation Intel[®] Core™ i7/i5/i3 Processor-Based Fanless Embedded Computer

Features

- 6th Gen Intel[®] Core™ i7/i5/i3 Processors and QM170 chipset
- Single-side I/O with two hot-swappable SATA drive bays for easy maintenance
- 1x DVI-I, 2x DisplayPort, 4x USB 2.0, 4x USB 3.0, 4x GbE, 6x COM ports, and 16x isolated DI/O
- Rich Storage Options, 2x 2.5" SATA III (6.0 Gb/s) drive bays, 1x M.2 2280, 1x CFast
- Versatile connection via 2x mPCIe and 2x USIM
- Rugged construction delivering fanless -20°C to 60 (70)°C operability (w/industrial SSD)
- Built-in ADLINK SEMA 3.0 management solution
- Compliant with railway certification EN50155 EMC standard (EN50121)

Introduction

ADLINK's new Matrix MXE-5500 series of rugged quad-core fanless computers features the 6th generation Intel[®] Core[™] i7/i5/i3 processors, delivering outstanding performance with robust construction.

The MXE-5500 series accommodates rich I/O capabilities in a compact system size, with two DisplayPort, one DVI-I (supporting both DVI and VGA signals), four GbE by Intel network interface controllers, four each USB 2.0 and USB 3.0, sixteen isolated DI/O, and six COM ports, four of which are BIOS-configurable among RS-232/422/485. In addition, with dual hot-swappable 2.5" SATA drive bays, one CFast port and one M2.2280, providing versatile storage options to a wide range of applications. Dual mini PCIe slots and USIM sockets empower the MXE-5500 as a communications hub for a variety of wireless connections, such as BT 4.0/WiFi and 3G.

Leveraging proprietary mechanical engineering, the MXE-5500 series continues to offer all the popular features of the popular 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-5500 is an ideal choice for a wide range of applications supporting intelligent transportation, in-vehicle multimedia & surveillance and factory automation applications.





Software Support

- Windows[®] 10 / 7 / Embedded Standard 7
- Linux Ubuntu 16.04 LTS*

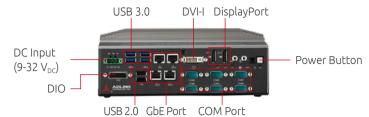
Ordering Information

- MXE-5501
- Intel[®] Core[™] i7-6820EQ fanless embedded computer • MXE-5502
- Intel[®] Core[™] i5-6440EQ fanless embedded computer • **MXE-5503**
- Intel[®] Core™ i3-6100E fanless embedded computer

Optional Accessories

- 8/16/32 GB DDR4 Upgrade Upgrade to 8/16/32 GB DDR4 memory
- HDD/ SSD/ CFast/ M.2 2280 storage Factory-installed and test
- 160 W AC-DC Adapter Industrial grade AC-DC adapter
- Wireless Kit Option WiFi/ BT/ 3G/ 4G LTE/ LoRa wireless kit (w/ Antenna)
- Extended Temperature Option Optional screening to extended temperature of MXE-5501 to -20 to 60°C and MXE-5502/5503 to -20 to 70°C

Product Illustration





SATA Drive Bay

Specifications

Model Name	MXE-5501	MXE-5502	MXE-5503
System			
Processor	Intel [®] Core™ i7-6820EQ	Intel [®] Core™ i5-6440EQ	Intel [®] Core™ i3-6100E
Chipset	、	QM170	
of Cores	4	4	2
lase Freg.	2.8 GHz	2.7 GHz	2.7 GHz
1ax Turbo Freg.	3.5 GHz	3.4 GHz	_
1emory		4 GB DDR4 2400 MHz (up to 32 GB)	
-	2 DisplayPort 1 DVI		
/ideo			
/O Interface			
xpansion Slots	2 mPCle + 1 m.2 2280 (USB I/F)		
ISIM	2		
thernet	4 GbE (Intel [®] I210/I219 PHY/ 2x I211)		
	COM1 & COM2: 2 RS-232/422/485		
Serial Ports	COM1 & COM2. 2 RS-232/422/485		
	COM5 & COM4. 2 RS-232/422/485 COM5 & COM6: 2 RS-232		
JSB	4 USB 3.0 + 4 USB 2.0		
	Isolated 8x DI + 8x DO		
udio	ALC262, Line-out/ Mic-in		
² C		1	
Manageability			
Vatchdog Timer	\checkmark		
PM	TPM 1.2		
EMA		\checkmark	
Storage			
.5" SATA	2x removable drive bays		
CompactFlash	1 Type II CFast		
nSATA/M.2	1 M.2 2280		
Invironment			
		Standard: 0 to 50°C	
Operating Temperature	Extended option (w/Ind. SSD):		
	-20 to 60°C for MXE-5501;		
	-20 to 70°C for MXE-5502/5503		
Storage Temperature	-40 to 85°C (-40 to 185°C)		
Humidity	Approx. ~95% @40°C (non-condensing)		
Vibration	With CFast/SSD: 5 Grms		
	With HDD: 0.5 Grms		
SD	Contact +/- 4 KV, Air +/- 8 KV		
Shock	With CFast/SSD: 100 G		
	With HDD: 20 G		
MC	CE and FCC Class A (EN61000-6-4/-2), EN50121		
afety	UL by CB		
ieneral			
Power Supply	9-32 V _{DC}		
Aechanical			
		230 (W) x 205 (D) x 90 (H) mm	
Dimensions		(9" x 8" x 3.54")	
Veight	4 kg (8.81 lbs)		
		Wall-mount kit	

*Other Linux Distribution support by request



www.adlinktech.com

All products and company name listed are trademarks or trade names of their respective companies. Updated Aug. 22, 2018. ©2018 ADLINK Technology, Inc. All Rights Reserved. All specifications are subject to change without further notice.