



		MXE-5400 Series	MXE-5300 Series	
Model Name		MXE-5401/5402/5403	MXE-5301/5302/5303	
System	Processor	Intel® Core™ i7-4700EQ / i5-4400E / i3-4100E	Intel® Core™ i7-2710QE / i5-2510E / i3-2330E	
	Chipset	Intel® QM87	Intel® QM67	
	Video	Support for up to 3 independent displays, 1 x DVI-I + 2 x DisplayPort	VGA+DVI dual display output by DVI-I connector Analog CRT, supports QXGA (2048 x 1536) resolution DVI output, supports up to 1920 x 1080 resolution	
	Memory	4 GB DDR3L (up to 16 GB)	4 GB DDR3 1066 MHz SODIMM module (up to 16 GB)	
I/O Interface	Expansion Slots	2 Mini PCIe slots / 1 mSATA (jumper selectable)	2 Mini PCIe slots	
	USIM	1x USIM slot for 3G communication	1 USIM socket for 3G communication (used for a 3G-mini module)	
	Ethernet	4 GbE (Intel® i217LM + 3x Intel® i210IT)	4 GbE ports (2 Realtek® 8111C + 1 Intel® 82574IT + 1 82579 LM)	
	Serial Port	COM1 & COM2	2 RS-232/422/485	2 RS-232/422/485
		COM3 & COM4	2 RS-232	2 RS-232
		COM5 & COM6	-	-
	USB Port	6 USB 3.0 + 1 USB 2.0 (internal)	4 USB 2.0 +2 USB 3.0	
	DIO	8x DI + 8x DO w/ 1.5 KV isolation	4 DIO w/ 1.5 KV isolation	
Manageability	Watchdog Timer	V	V	
	SEMA	SEMA 2.2	-	
Storage	SATA HDD	Two 2.5" HDD/SSD installation (With RAID support)	2.5" HDD/SSD installation	
	CompactFlash	1Type II CFast	1 CFast socket	
	mSATA	1 mSATA (share slot w/ mPCIe)	-	
	SD	-	-	
Environment	Operating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended option: MXE-5401:-20°C to 60°C (-4°F to 140°F) ;MXE-5402/5403:-20°C to 70°C (-4°F to 158°F) (w/industrial SSD or CFast)	Standard: 0°C to 50°C (32°F to 122°F) Extended option: MXE-5301:-20°C to 60°C (-4°F to 140°F) ; MXE-5302/5303:-20°C to 70°C (-4°F to 158°F) (w/industrial SSD or CFast)	
	Vibration	Operating 5Grms, 5-500 Hz, 3 axes w/ CF or SSD Operating 0.5Grms, 5-500 Hz, 3 axes w/ HDD	Operating, 5 Grms, 5-500 Hz, 3 axes w/ CFast or SSD Operating, 0.5 Grms, 5-500 Hz, 3 axes w/ 2.5" HDD	
	ESD	Contact +/- 4 KV, Air +/- 8 KV	Contact +/-4 KV and Air +/-8 KV	
	Shock	Operating 100G, half sine 11 ms duration w/ CF or SSD Operating 20G, half sine 11 ms duration. w/ HDD	Operating, 50 G, half sine 11 ms duration w/ CFast or SSD	
	EMC	CE and FCC Class A	CE and FCC Class A	
	Safety	UL, CB	-	
General	Power Input	9-32 V _{DC}	9-32 V _{DC}	
Mechanical	Dimensions	230 (W) x 205 (D) x 75 (H) mm (9" x 8" x 2.9")	230 (W) x 205 (D) x 75 (H) mm (9" x 8" x 2.9")	

Fanless Embedded Computers

Matrix MXE Series – Integrated Embedded Computers



		MXE-1400 Series	MXE-200 Series		MXE-1300 Series		
Model Name		MXE-1401	MXE-201	MXE-202	MXE-1301/1302	MXE-1311/1312	
System	Processor	Intel® Atom™ E3845	Quad-Core Intel® Atom™ E3845 Processor	Dual-Core Intel® Atom™ E3826 Processor	Intel® Atom™ D2550 1.86 GHz/ N2600 1.6 GHz		
	Chipset	SoC	SoC		Intel® NM10		
	Video	1 DisplayPort + 1 DVI-I	1 HDMI		VGA+DVI dual display, supports 1920 x 1200 resolution		
	Memory	2 GB DDR3L 1066 (Up to 8 GB)	DDR3L 1066 2 GB (Memory Down)		2 GB DDR3 1066 MHz SODIMM module (Up to 4 GB)		
I/O Interface	Expansion Slot	2 mPCIe slots	2 Mini PCIe Slots		1 Mini PCIe slot		
	USIM	1 USIM slot for 3G communication	1 USIM slot for 3G communication		1 USIM socket for 3G communication		
	Ethernet	3 x GbE (Intel® I211AT)	2x GbE LAN (Intel® I210-IT)		3 GbE ports (3x Intel® 82574L)		
	Serial Port	COM1 & COM2	2 RS-232/422/485	1 RS-232/422/485		2 RS-232/422/485	
		COM3 & COM4	2 RS-232/422/485	1 RS-232		2 RS-232	
		COM5 & COM6	2 RS-232	-		-	
	USB Port	6 USB 2.0 + 1 USB 3.0	2 USB 2.0 host port + 1 USB 3.0		6 USB 2.0		
DIO	8x DI + 8x DO	Optional 4x isolated DI + 4x isolated DO		4x DI + 4x DO			
Manageability	Watchdog Timer	V	V		V		
	SEMA	SEMA 2.5	SEMA support with BMC		-		
Storage	SATA HDD	2.5" HDD/SSD drive bay	-		2.5" HDD/SSD installation		
	CompactFlash	1 Type II CFast	-		1 Type I CF socket		
	mSATA	-	1 mSATA (same slot with mPCIe)		-		
	SD	-	1 SD card slot (up to 16 GB)		-		
Environment	Operating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended option: -20°C to 70°C (-4°F to 158°F) (w/industrial SSD or CF)	Standard: 0°C to 50°C (32°F to 122°F) Extended option*: MXE-201: -20°C to 60°C (-4°F to 140°F); MXE-202: -20°C to 70°C (-4°F to 158°F) (w/industrial SD/mSATA)		Standard: 0°C to 50°C (32°F to 122°F) Extended option: -20°C to 70°C (-4°F to 158°F) (w/industrial SSD or CF)		
	Vibration	Operation 5 Grms, 5-500 Hz, 3 axes w/ SSD	Operating 5 Grms, 5-500 Hz, 3 axes w/ SD/mSATA		Operating, 5 Grms, 5-500 Hz, 3 axes w/ CF/SSD; Operating, 0.5 Grms, 5-500 Hz, 3 axes w/ HDD	Operating, 5 Grms, 5-500 Hz, 3 axes w/ CF Operating, 0.2; Grms, 5-500 Hz, 3 axes w/ HDD	
	ESD	Contact +/-4 KV, Air +/-8 KV	Contact +/-4 KV and Air +/-8 KV		Contact +/-4 KV and Air +/-8 KV		
	Shock	Operating 100 G, half sine 11 ms duration w/ SD/mSATA	Operating, 100 G, half sine 11 ms duration w/ SD/mSATA		duration w/ CF/SSD		
	EMC	CE and FCC Class A, E-mark (MXE-1400V only)	CE & FCC Class A (EN 61000-6-4/ EN 61000-6-2)		CE and FCC Class A		
	Safety	UL by CB	UL by CB		-		
General	Power Input	9-32 V _{DC}	6-36 V _{DC}		6-36 V _{DC}		
Mechanical	Dimensions	210 (W) x 170 (D) x 70 (H) mm (8.3" x 6.75" x 2.8")	120 (W) x 100 (D) x 55 (H) mm (4.68" x 3.9" x 2.17")		210 (W) x 170 (D) x 53 (H) mm (8.3" x 6.75" x 2.1")	210 (W) x 170 (D) x 58 (H) mm (8.3" x 6.75" x 2.3")	

*Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device.