

Selection Guide

Matrix MXC Series-Expandable Embedded Computers

	MXC-2000 Series			MXC-4000 Series	
	Model Name	MXC-2002	MXC-2011	MXC-2012 (Maritime compliance)	MXC-4002D
System	Intel® Atom™ N270 1.6 GHz			Intel® Atom™ D510 1.66 GHz	
Processor	Intel® 945GSE+ ICH7-M			Intel® ICH8-M	
Chipset	1 GB DDR2 533 MHz SODIMM module			1 GB DDR2 667 MHz SODIMM Module	
Memory	I/O Interface				
Expansion Slots	2 PCI slots	1 PCI slot and 1 PCIe x1 slot	2 PCI slot and 1 PCIe x4 slots	2 PCI slots	1 PCI slot and 1 PCIe slot
Ethernet	2 GbE ports (Realtek® 8111C)			2 GbE ports (Intel® 82574L)	
Serial Port	COM1 & COM2	2 RS-232/422/485		2 RS-232/422/485	
	COM3 & COM4	2 RS-232		2 RS-232	
USB Port	4			4	
Watchdog Timer	√			√	
Storage	2.5" HDD/SSD installation			2.5" HDD/SSD installation	
SATA HDD	2 Type II CF sockets			1 Type II CF socket	
CompactFlash	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)			Standard: 0°C to 50°C (32°F to 122°F) Extended option: -10°C to 60°C (-14°F to 140°F) (w/ industrial SSD)	
General	9-32 V _{DC}			18-36 V isolation DC input	
Power Supply	11-11			9-32 V _{DC}	
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	MXC-6000 Series		MXC-6300/6310 Series		
	Model Name	MXC-6101D	MXC-6201D		
System	Intel® Core™ i7-620LE 2.0 GHz		Intel® Core™ i7-3610QE/ i5-3610ME/i3-3120ME		Intel® Core™ i7-3610QE/ i5-3610ME/i3-3120ME
Processor	Intel® QM57				
Chipset	2 GB DDR3 800/1066 MHz SODIMM module				
Memory	I/O Interface				
Expansion Slots	2 PCI slots	1 PCI slot and 1 PCIe x4 slot		1 PCI +2 PCIe x8 slots or 1 PCI + 1 PCIe x16	1 PCI + 1 PCIe x16
Ethernet	2 GbE ports (2 Intel® 82574L)				
Serial Port	COM1 & COM2	2 RS-232/422/485			
	COM3 & COM4	2 RS-232			
USB Port	4 (external), 1 (internal)				
Watchdog Timer	√				
Storage	2.5" HDD/SSD installation				
SATA HDD	1 external Type II CF socket, 1 internal Type II CF socket				
CompactFlash	Environment				
Operating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended option: -10°C to 60°C (-14°F to 140°F) (w/ industrial SSD)				
General	9-32 V _{DC}				
Power Supply	11-7				
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*Heat dissipation from inserted PCI/PCIe cards may affect thermal performance.

Selection Guide

Matrix MXE Series-Integrated Embedded Computers

	MXE- I 000 Series			MXE- I 200 Series			MXE- I 300 Series		
							 NEW		
Model Name	MXE-1005	MXE-1010	MXE-1020	MXE-1212/232, MXE-1212/422, MXE-1212/485	MXE-1301/1302	MXE-1311/1312			
System									
Processor	Intel® Atom™ N270 1.6 GHz			Intel® Atom™ N270 1.6 GHz			Intel® Atom™ D2550 1.86 GHz/N2600 1.6 GHz		
Chipset	Intel® 945GSE+ ICH7-M			Intel® 945GSE+ ICH7-M			Intel® NM10		
Memory	1 GB DDR2 533 MHz SODIMM module			1 GB DDR2 533 MHz SODIMM module			2 GB DDR3 1066/800 MHz SODIMM module		
I/O Interface									
Ethernet	1 GbE port (Realtek® 8111C)	3 GbE ports (Realtek® 8111C+Intel® 82574) (support teaming function)		1 GbE port (Realtek® 8111C)	1 GbE port (Realtek® 8111C)			3 GbE ports (3x Intel® 82574L)	
Serial Port	COM1 & COM2	2 RS-232/422/485			2 RS-232/422/485 by DB9 connectors			2 RS-232/422/485	
	COM3 & COM4	2 RS-232			2 RS-232 by DB9 connectors			2 RS-232	
	COM5 - COM12	-			8 RS-232/422/485 by DB62 connector			-	
USB Port	4			4			6		
Watchdog Timer	√			√			√		
Storage									
SATA HDD	2.5" HDD/SSD installation			2.5" HDD/SSD installation			2.5" HDD/SSD installation	3.5" HDD installation	
CompactFlash	1 Type I CF socket			1 Type II CF socket			1 Type I CF socket		
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)			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)			Standard: 0°C to 50°C (32°F to 122°F) Extended temperature: -20°C to 70°C (-4°F to 158°F) (w/industrial SSD or CF)		
General									
Power Supply	6-36 V _{DC}			6-36 V _{DC}			6-36 V _{DC}	9-36 V _{DC}	
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	MXE-3000 Series		MXE-5000 Series		MXE-5300/5310 Series		
							 NEW
Model Name	MXE-3002		MXE-5104M	MXE-5104 (Maritime compliance)	MXE-5301/5302/5303		
System							
Processor	Intel® Atom™ D510 1.66 GHz		Intel® Core™2 Duo P8400 2.26 GHz		Intel® Core™ i7-2710QE / i5-2510E / i3-2330E		
Chipset	Intel® ICH8-M		Intel® GM45+ ICH9-M				
Memory	1 GB DDR2 667 MHz SODIMM module		2 GB DDR3 SODIMM				
I/O Interface							
Ethernet	3 GbE ports(1 Realtek® 8111C + 2 Intel® 82574L)		4 GbE ports (2 Intel® 82574L + 2 Realtek® 8111C)				
Serial Port	COM1 & COM2	2 RS-232/422/485		2 RS-232			
	COM3 & COM4	2 RS-232		2 RS-232/422/485			
	COM5 - COM12	-		-			
USB Port	6		6				
Watchdog Timer	√		√				
Storage							
SATA HDD	2.5" HDD/SSD installation		2.5" HDD/SSD installation		2.5" HDD/SSD installation		One 2.5" HDD/SSD + one 3.5" HDD installation
CompactFlash	1 Type II CF socket		-				
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)		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)				
General							
Power Supply	9-32 V _{DC}		9-24 V _{DC}	24V isolation DC input			
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*Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device.

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