MIC-3332

3U CompactPCI PlusIO Intel® 6th Gen. Quad- Core™ Processor Blade



Features

- Intel® latest 6th Gen 14nm Xeon®/Core™ processor with CM236 PCH
- Up to 16GB DDR4-2133 soldered memory with ECC or Non-ECC
- Multi-option storage as 2.5" SATA, Cfast, Mirco SD, etc
- 2 RJ45 GbE LAN, 2 USB3.0, 1VGA on front 4HP panel
- 4 M12 X-Coding or 4 RJ45 GbE LAN on 8HP XTM-2 front panel
- Design to meet EN50121-4 & EN50155 for railway application
- PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.3 Compliant







Introduction

Advantech MIC-3332 Series, using Intel® latest 14nm technology (code name: Skylake) to provide significant performance and power efficiency.

MIC-3332 series,as a 3U CompactPCI® processor blade, is featured with a 4 cores/8 threads Core™ i7 Processors i7-6822EQ, i7-6820EQ, Xeon® Processor E3 v5 Family as E3-1505M v5 and E3-1505L v5, mating with Intel® CM236 platform Chipset Hub to support single channel up to 8GB or 16GB soldered DDR4@2133MHz memory. The graphics is embedded in processor to offer up to three independent displays per request. It is available in single and dual slots width form factors, to offer various I/O connectivity by XTM (8HP) .Rear IO extensions and PlusIO.

Front panel I/O on the single slot (4HP) provides 2xRJ45 GbE ports 1xVGA port and 2xUSB3.0 port. Front panel I/O on the second layer (XTM-2) provides 4xGbE port by M12 X-coding or RJ45 connectors, there are various types of storage as on board 2.5" SATA connector, Cfast socket. Additional 1x Micro-SD slot is as extension options based on user request.

MIC-3332 provides an ideal solution for railway rolling stock, high-performance computing and military application. With its optimized design on EMC & thermal, it is available to meet or exceed EN50155 and EN50121-4.

Specifications

Processor System	СРИ	Intel® E3-1505LV5,4C/8T,2.0GHz, ECC, TDP 25W Intel® E3-1505MV5,4C/8T,2.8GHz, ECC, TDP 45W Intel® Core i7-6822EQ,4C/8T, 2.0GHz,w/o ECC, TDP 25W Intel® Core i7-6820EQ,4C/8T,2.8GHz,w/o ECC, TDP 45W					
	BIOS	Dual AMI 16 MB SPI flash					
Mamaru	Technology	Single Channel DDR4@2133 MHz with ECC or Non-ECC					
Memory	Max. Capacity	Up to 8GB or 16GB soldered on board memory					
	J1 Connectors	32bit/33MHz PCI local bus					
Compact PCI Interface	J2 Connector	RTM					
	Mode	System Master/Drone					
0	Chipset	Integrated in processor					
Graphics	Resolution	1920 x 1200 @ 60Hz					
Ethernet	Controller	Intel® WGI210 Gigabit Ethernet Controller					
	Interface	PCIe 1.0x1, 10/100/1000 Base T Ethernet					
	I/O Connector	2 x RJ45 GbE LAN port to 4HP front panel 4 x RJ45 or 4 x M12 GbE LAN port to 8HP front panel 2 x RJ45 to RIO (more ethernet to RIO per request)					
	Mode	SATAIII					
Storage	On board Connector	1 Channel to XTM on board 2.5" SATA connector 1 Channel to XTM on board Cfast socket 3 Channels to RTM					
	Mode	USB2.0					
	On board Connector	1 x Micro SD socket					
Front I/O	USB	2 x USB3.0 TypeA					
	VGA	1 x VGA					
	LAN	4HP with 2 x 10/100/1000Mbps on RJ45, 8HP with 4 x 10/100/1000Mbps on M12 X-coding or RJ45					
	Front Panel LEDs	x1 blue/Orange for Hot Swap/HDD, x1 green for Power/Master/Drone mode					
	Buttons	System reset button					
Plus IO or RTM interface (4HP J2)	USB	4 x USB2.0					
	SATAIII	2 x SATAIII (1 x SATAIII option)					
	LAN	2 x10/100/1000BASE-T Ethernet					
	PCle	4 x PClex1 Gen2 (1 x eDP option)					

Specifications (Cont.)

RIO (4HP)	USB	2 x USB2.0 TypeA				
	VGA	1 x VGA				
	LAN	2 x 10/100/1000Mbps on RJ45				
	Others	2 x SATA2.0 interface to M.2 B key Connector (2	22*42mm)			
Watahdaa Timar	Output	Local reset & interrupt				
Watchdog Timer	Interval	Programmable 1s ~ 255s				
Operating System	Compatibility	Windows10, windows7, Ubuntu 18.04, Centos7	7.5			
Dower Dequirement	Configuration	CPU TDP 25W/45W, 8HP				
Power Requirement	Consumption	30W/50W				
Physical	Dimensions (W x D)	3U/ 4HP&8HP: 100 x 160 mm (front board)				
		Operating	Non-operating			
	Temperature	0 ~ 55 °C (32 ~ 122 °F)	-40 ~ 85 °C (-40 ~ 185 °F)			
Environment	Humidity	95 % @ 40 °C, non-condensing	95 % @ 60 °C, non-condensing			
	Vibration	2 Grms (with SSD or Cfast)	2Grms			
	Shock	10 G, 11ms, each axis three times				
Regulatory	Conformance	FCC Class A, CE, RoHS,				
Compliance	Standards	PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.30 PlusIO Compliance				

Supported CPU Configurations

Intel® CPU Model Number	# Cores	Freq.	Smart Cache	Memory Types	CPU TDP
Intel® Core™ i7-6822EQ	4	2.0GHz	8 MB	DDR4-2133, Non-ECC	25W
Intel® Core™ i7-6820EQ	4	2.8GHz	8 MB	DDR4-2133, Non-ECC	45W
Intel® Xeon® E3-1505M v5	4	2.8GHz	8 MB	DDR4-2133, ECC	45W
Intel® Xeon® F3-1505L v5	4	2 0GHz	8 MB	DDB4-2133 FCC	25W

Ordering Information

Front Panel					Main On board Features							
Single board		4HP		MTX		4HP		MTX			Others	
Siligie boald	LAN (RJ45)	USB3.0	VGA	LAN (M12)	LAN (RJ45)	CPU	Memory ⁽¹⁾	SATA Conn.	Cfast Socket	Micro-SD Socket	Slot Width	Plus10
MIC-3332C1-D1E	2	2	1	-	4	i7-6822EQ	8GB	1	1	1	2	No
MIC-3332C3-D1E	2	2	1	4	-	i7-6822EQ	8GB	1	1	1	2	Yes
MIC-3332D1-D1E	2	2	1	4	-	i7-6820FQ	16GB	1	1	1	2	No

Notes: 1. Intel® Xeon® E3-1505L v5 and E3-1505M v5 with ECC support per request

Related Products

Peripheral board	Description
MIC-3955	3U CPCI 4 or 8-port RS232/422/485 communication card, with RIO support
MIC-3958	3U CPCI 4/2 port RJ45 or M12 X-code Gigabit Ethernet Card, with RIO support
MIC-3022	3U or 4U enclosure for 3U cards, with RIO support
MIC-3954	3U CPCI-S SSD carrier card/miniPCle card
MIC-3332 RIO Board	3U CPCLMIC-3332 RIO Board with 2 x USB2.0. 1 x VGA. 2 x R.I45 IO ports

Storage/10

MIC-3332C series with 4 RJ45



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