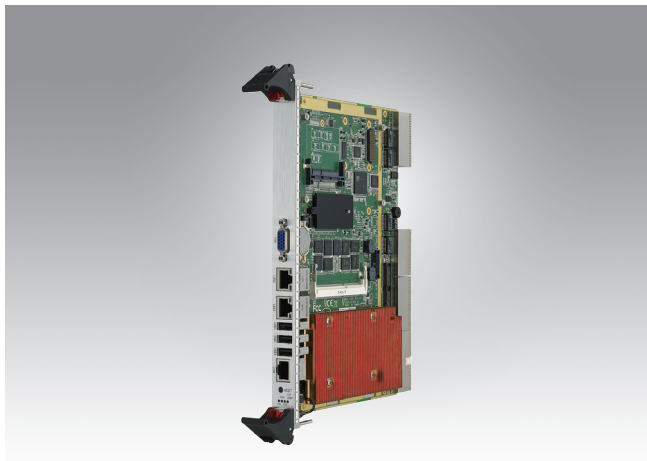


MIC-3397

6U CompactPCI Quad Core Intel® Xeon® Processor Blade



Features

- Supports 22nm Intel® Xeon® processor
- Intel® DH8900 chipset supports DM1.0 x 4
- Up to 16GB DDR3-1333/1600 ECC memory
- Supports up to five GbE ports, six USB2.0 ports, two VGA ports, three COM ports, one PS/2 connector, three 2.5" SATA connector (one SATA HDD is optional with 8GB NAND flash), one Cfast, one PCIe 2.0x4 interface to the Rear Transition Module (RTM)
- PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.16 R1.0 Compliant

CE FCC

Introduction

Advantech's MIC-3397 is a 6U CompactPCI single board computer with a choice of server class processors based on the Quad-Core Intel® Xeon® E3-1125C v2(40W) with DH8900 chipset. The processor is based on Intel® 22nm 64 bit process technology, with up to 2.5GHz clock speeds 8MB L3 cache, Intel® Hyper-Threading, Virtualization, and Trusted Execution Technology, all of which enable the board for applications requiring higher levels of performance and security. The MIC-3397 supports dual channel ECC memory, up to 16GB DDR3 at 1333/1600MHz with max 8GB on board and 8GB SO-DIMM memory, three 2.5" Serial ATA interfaces (one on board optional with one 8 GB NAND flash, two to RTM), one Cfast slot, five Gigabit Ethernet ports (two on front panel, two to RTM with one optional on the front panel), six USB2.0 ports (three on front panel, three to RTM), two VGA ports (one on front panel, one to RTM) on the 4HP model, three COM ports (one to front panel, two to RTM), one PS/2 port, and one PCIe2.0 x4 interface reserved for user define extensions on the rear transition module.

MIC-3397 Series can be installed in a standard CompactPCI system slot as system master, or peripheral slot as stand-alone server blade without CompactPCI bus communication, it meets the needs of applications operating in harsh environments and is ideally suited for datacom, telecom and military applications. Its outstanding graphics capabilities make it a good choice for image-processing in medical, defense system and many other vertical segments applications.

Specifications

Processor System	CPU	Quad-Core Intel® Xeon® Processor E3-1125C v2
	Max Speed	Up to 8MB L3 Cache, 2.5 GHz
	Chipset	Intel® DH8900 PCH (Cave creek)
	BIOS	Redundant AMI 8 MByte SPI flash
Memory	Technology	Dual Channel DDR3 1333/1600 MHz with ECC
	Max. Capacity	8GB on board
	Socket	SO-DIMM x1, up to 8GB
Compact PCI Interface	J1 ~ J2 Connectors	64bit/66MHz PCI local bus
	J3 Connector	PICMG2.16 + RTM
	J5 Connector	RTM
	Bridge	Pericom PI7C9X130DNDE
	Mode	System Master/Drone
	Ethernet	PHY
Interface		SGMII, 10/100/1000 Base TX Ethernet
I/O Connector		PICMG2.16 x 2 to J3, RTM x2 or RJ45 x1 to front
Controller		Intel® WGI210AT SLJXR Gigabit Ethernet Controller
Interface		PCIe 1.0x1, 10/100/1000 Base TX Ethernet
I/O Connector		RJ45 x1 to front
Graphics	Controller	SM750GX160000-AC ,265P, 16Mbytes of embedded 32-bit DDR memory
	Resolution	Dual display: 1360 x 768 (Clone & extended mode) Single display:1920 x 1080 (16bit, clone mode only)
Storage	Mode	SATA-II
	Channels	1 channel to on board SATA carrier or on board NAND flash
		1 channel to on board cfast socket 2 channels to RTM

Specifications (Cont.)

Front I/O	USB2.0	3 type A											
	COM	1 RS232/422 on RJ45											
	LAN	2 10/100/1000Mbps on RJ45											
	Graphics	1 VGA port on 4HP											
	Front Panel LEDs	x1 blue/yellow for Hot Swap/HDD, x1 green for Power, and x1 green for Master/Drone mode											
	Buttons	System reset button											
To RTM	USB2.0	3 ports											
	COM	2 RS232/422/485 on RJ45 or DB9											
	LAN	PICMG2.16 x2 to J3, RTM x2 (1 mux to front)											
	SATA	2 ports											
	PCIe	PCIe2.0 x4											
	Graphics	1 VGA port											
	Others	PS/2 for KB & Mouse											
BIOS	Boot Options	SATA,USB port, USB disk, network (PXE)											
Watchdog Timer	Output	Local reset & interrupt											
	Interval	Programmable 1s ~ 255s											
Hardware Monitor	Controller	NCT6776D											
Operating System	Compatibility	Windows7, Windows7 Embedded, Linux											
Power Requirement	TDP (max./typ.)	4HP:80W (MIC-3397)											
Physical	Dimension & Weight	6U/1 slot width (4HP): 233.35 x 160 x 20 mm (9.2" x 6.3" x 0.8")											
	Environment	<table border="1"> <tr> <td>Operating</td> <td>Non-operating</td> </tr> <tr> <td>Temperature</td> <td>0 ~ 55° C (32 ~ 122° F) / -40 ~ 85° C (-40 ~ 185° F)</td> </tr> <tr> <td>Humidity</td> <td>95 % @ 40° C, non-condensing / 95 % @ 60° C, non-condensing</td> </tr> <tr> <td>Vibration</td> <td>2.0G Grms (Single slot, without on-board 2.5" SATA HDD) / 2Grms / 1.06 Grms (Dual slot, without on-board 2.5" SATA HDD)</td> </tr> <tr> <td>Shock</td> <td>10G (Without on-board 2.5" SATA HDD) / 30G (Single slot, without on-board 2.5" SATA HDD)</td> </tr> <tr> <td>Altitude</td> <td>15000 feet above sea level / 40000 feet above sea level</td> </tr> </table>	Operating	Non-operating	Temperature	0 ~ 55° C (32 ~ 122° F) / -40 ~ 85° C (-40 ~ 185° F)	Humidity	95 % @ 40° C, non-condensing / 95 % @ 60° C, non-condensing	Vibration	2.0G Grms (Single slot, without on-board 2.5" SATA HDD) / 2Grms / 1.06 Grms (Dual slot, without on-board 2.5" SATA HDD)	Shock	10G (Without on-board 2.5" SATA HDD) / 30G (Single slot, without on-board 2.5" SATA HDD)	Altitude
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Altitude	15000 feet above sea level / 40000 feet above sea level												
Regulatory	Conformance	FCC Class A, CE, RoHS											
	NEBS Level 3	Designed to meet GR-63-Core and GR-1089-Core											
Compliance	Standards	PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.16 R1.0,											

Supported CPU Configurations

Intel® CPU Model Number	# Cores	Freq.	Cache	Memory Types	CPU TDP
Intel® Xeon® Processor E3-1125C v2	4	2.5GHz	8 MB L3 Cache	DDR3/3-1333/1600	40W

Ordering Information

CPU Board	Front panel						CPU	On board Features					
	LAN (1)	COM (RJ45) (2)	USB	VGA	DVI	DP		Memory (Up to 8GB) (3)	SO-DIMM (Up to 8G)(4)	SATA HDD Socket (4)	Cfast Socket	Slot Width	Conn.
MIC-3397C2-M8E	2	1	3	1	NA	NA	Xeon® E3-1125C v2	8 GB	1	1	1	1	J3/J5

Note:

1. LAN2 on front is switchable with RIO LAN1 which can be set in BIOS
2. COM support RS232/422 mode only
3. Total memory capacity is up to 16GB, 8GB on board, 8GB on SO-DIMM
4. 8GB onboard NAND flash is per request, not in default SKU

Recommended Configurations

CPU board	Rear I/O Board
MIC-3397x-MxE Series	RIO-3317-XXX

