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Mission Critical CompactPCI Platforms

- ☞ 8-3 3U CPCI
- ☞ 8-4 3U CPCI Serial
- ☞ 8-5 6U CPCI
- ☞ 8-6 VPX



Intelligent CompactPCI and VPX Platforms

At the core of business and mission critical solutions

Advantech has been a key provider in the CompactPCI and VPX market for mission critical applications in the telecom, railway, defense, and aviation industries. Advantech's CPCI and VPX solutions feature fixed BOM, longevity of supply, EoL alternatives, and last-time-buy services to assure continuous supply and support for customers. In addition, Advantech's unique PIN definitions and customization services offer the best extendibility and cost effectiveness.

Our CompactPCI and VPX solutions are compliant with the following specifications:

- PICMG 2.0 R3.0 CompactPCI specification
- PICMG 2.0 R2.0 CompactPCI specification PCI hot swap
- PICMG CPCI-S.0
- VITA 46/48/65 compliant

Product Offerings



Railway

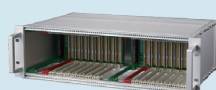
Intelligent Wayside Signaling Control

3U CPCI Legacy Solution

- 3U or 4U height 19 inch on-rack, AC input
- Entry Atom CPU, fanless, -40°C ~ 70°C wide temperature operation
- Dual systems for redundancy
- Front LED, all I/Os on the rear side
- EMC/Safety EN50121-4, GB/T 24338.5
- MTBF > 100,000 hours.



MIC-3329/MIC-3332
CPU blade



MIC-3023
CPCI-legacy chassis



MIC-3955A/B
4/8-port COM card + RTM



MIC-3958D
3 or 5-port switch card



MIC-3958A/B
4-port GbE card RJ45
or M12 X-code + RTM



MIC-3956
110V/120W or 250W
CPCI legacy DC power

AI/Machine Vision on Rolling Stock

3U CPCI-Serial Solution

- 3U or 4U height 19 inch on-rack, DC input
- High-performance Xeon/Core i7/i5, 2 or 3 systems
- All I/Os on the front side for easy maintenance.
- EMC/Safety EN50155, GB/T 24338.4, GB/T 25119, GB/T 21563



MIC-3810
PCIe x 16 carrier



MIC-3811
Dual mini-PCIe carrier for
Advantech i-door module



MIC-3820
2.5" SATA carrier



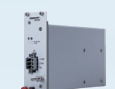
MIC-3954D/E
Quad M.2 or
mini-PCIe carrier



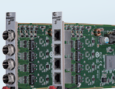
MIC-330
CPU blade



MIC-300
11-slot/21-slot
CPCI-serial chassis



MIC-3890
110V/250W CPCI
serial DC power



MIC-3860
4-port GbE card RJ45
or M12 X-code



Defense and Automation

6U CPCI Solution

High-performance digital signal controlling platform for defense/industrial/machine automation/medical applications



MIC-3666
Dual 10 Gigabit Ethernet XMC



MIC-3667
Quad Gigabit Ethernet XMC



MIC-3398
Atom CPU blade



MIC-3399
Core i CPU blade

3U/6U VPX Solution

Extreme rugged, high-performance computing in compact size for defense/aviation applications



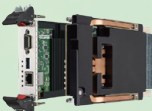
MIC-6030
3U VPX GbE switch



MIC-6130
3U VPX NVMe carrier



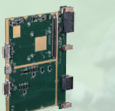
MIC-6131
3U VPX XMC carrier



MIC-6330
3U VPX blade



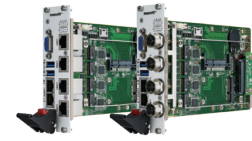
MIC-6314
6U VPX blade



MIC-6110
6U VPX MXM carrier



3U CPCI Legacy



Model		MIC-3329	MIC-3332
Form Factor		3U CPCI Legacy Processor Board	
Processor System	CPU	Intel® Atom™ Processor SOC E3827/E3845, Up to 2MB L2 Cache, 1.91 GHz	Intel® 6th gen skylake™ Processor Core i/Xeon: 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 Intel® E3-1505LV5, 4C/8T, 2.0GHz, w/ ECC, TDP 25W Intel® E3-1505MV5, 4C/8T, 2.8GHz, w/ ECC, TDP 45W
	Chipset	NA	CM236
Memory	Memory	Single channel DDR3L -1333 MHz with ECC Up to 4GB on board (8GB per request)	Single channel DDR4@2133 MHz with ECC or non-ECC Up to 16GB soldered on board
	Storage & Others	Speed: SATAII SKU1: 1x 2.5" SATA & 1x CFast socket SKU2: 1x 2.5" SATA & 1x CFast on RTM (mux with NAND flash, upon request)	Speed: SATAIII SKU1: 1x 2.5" SATA & 1x Micro-SD socket SKU2: 1x 2.5" SATA & 1x CFast socket SKU3: 2x SATA M.2 (2280 Size)
Front I/O	I/O Ports	SKU1: 2x RJ45 GbE, 1x USB3.0, 1x USB2.0, 1x VGA, 1x COM, 2x M12 X-code GbE SKU2: 2x RJ45 GbE, 1x USB3.0, 1x USB2.0, 1x VGA, 2x COM, 1x PS2, 1x Audio	SKU1: 2x RJ45 GbE, 2x USB3.0, 1x VGA, 4x RJ45/M12 X-Code GbE SKU2: 2x RJ45 GbE, 3x USB3.0, 1x VGA, 1x COM, 1x HDMI, 2x RJ45/M12 X-Code GbE SKU3: 2x RJ45 GbE, 2x USB3.0, 1x VGA
	LED Indicators	Hot swap/HDD/Power/Master/Drone mode/LAN LED, Reset button	Power/HDD/Hot swap/Master/Drone/LAN LED, Reset button
Backplane Interface	J1	32-bit/33MHz PCI bus	32-bit/33MHz PCI bus
	J2	RTM (MIC-3329R1-D1E)	RTM (MIC-3332R1-S1E)
Operating System	Compatibility	Windows7, Windows 10, Linux, CentOS6.6, VxWorks 6.9 & 7.0	Windows10, Windows7, Ubuntu 18.04, CentOS7.5, Vxworks 7.0
Power Consumption	System Full Loading	up to 15W	up to 50W
Physical Characteristics	Dimensions (W x D)	3U/8HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/4HP & 8HP 160.00 x 100.00 mm (6.30" x 3.95")
Environment	Operating Temperature	-40 ~ 70°C (-40 ~ 158°F) fanless	0 ~ 70°C (32 ~ 158°F) with forced air
Regulatory	Conformance	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS
	Railway Standards	EN50121-4 and EN50155	EN50121-4 and EN50155
Compliance	Standards	PICMG2.0 R3.0, PICMG2.1 R2.0	PICMG2.0 R3.0, PICMG2.1 R2.0



Model		MIC-3955	MIC-3958A&B	MIC-3958D	MIC-3022	MIC-3023
Form Factor		3U CPCI Legacy Peripheral Board			4U/3U CPCI Legacy Chassis	
Main Function		4 ports/8 ports - RS232/422/485 serial communication card speed up to 921600bps(Conditional)	4 ports RJ45/M12 X-code GbE card	3 ports/5 ports GbE switch card	3+1 U CPCI 84HP enclosure 1x BP with 1x system , 7x peripheral	3U CPCI 44HP/84HP enclosure 44HP enclosure with 1x BP, which contains 1x system, 7x peripheral 84HP enclosure with dual BP
I/O Ports	I/O Ports	SKU1: 4ports-1x DB44(F) SKU2: 8ports-1x DB62(F)	SKU1: 4 x RJ45 ports SKU2: 4 x M12 ports	SKU1: 3 x M12 ports SKU2: 5 x M12 ports	-	-
	LED Indicators	Rx/Tx LED	LAN LED	LAN LED	-	-
Backplane Interface	J1	32-bit/33MHz PCI bus	32-bit/33MHz PCI bus	-	32-bit/33 MHz/66MHz PCI Bus	32-bit/33 MHz PCI Bus
	J2	RTM (MIC-3527 series)	RTM (MIC-3958R1-S1E)	Reserve 6 x MDI/MDIX signal to Rear	Rear transition x 8	Rear transition x 8
Chassis Features	Backplane	-	-	-	Single 10-slot backplane 1x system, 7x peripheral CPCI PSU & RIO supported	Single or dual 10-slot backplane 1x system, 7x peripheral CPCI PSU & RIO supported
	Cooling	-	-	-	2 Blowers (30.5CFM/FAN)	Fanless or low noise fan (9.9CFM/FAN)
Operating System	Compatibility	CentOS 6/7, Neoklyin 6, Ubuntu 16.04, Ubuntu 18.04, VxWorks 6.9/7.0	Windows7/10, Vxworks 6.9/7.0, Linux CentOS 6.5/6.6	Windows7/10, Vxworks 6.9/7.0, Linux CentOS 6.5/6.6	-	-
Power Consumption	System Full Loading	3.5W/ 5W	10W	10W	-	-
Physical Characteristics	Dimensions (W x D)	3U/4HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/4HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/4HP & 8HP 160.00 x 100.00 mm (6.30" x 3.95")	440 x 177 x 295 mm	279.4 x 295.5 x 132.5 mm 482.6 x 295.5 x 132.5 mm
Environment	Operating Temperature	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	0 ~ 55°C (32 ~ 122°F)	0 ~ 55°C (32 ~ 122°F)
Regulatory	Conformance	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Compliance	Standards	PICMG2.0 R3.0	PICMG2.0 R3.0	-	PICMG 2.0, PICMG2.11	PICMG 2.0, PICMG2.11
	Railway Standards	EN50121-4	EN50121-4	EN50121-4	-	-

✓: supported, -: not supported, △: optional

- 1 IoT Software Solutions
- 2 Intelligent Systems
- 3 SKY Servers
- 4 AI & Advanced Computer Vision
- 5 Intelligent HMI and Monitors
- 6 Automation Computers
- 7 Intelligent Transportation Platforms
- 8 Mission Critical CompactPCI Platforms
- 9 Utility and Energy Solutions
- 10 EtherCAT Solutions and Automation Controllers
- 11 Intelligent Motion Control Solutions
- 12 High Speed DAQ Solutions
- 13 Industrial Communication
- 14 Intelligent Edge DAQ Devices
- 15 Remote I/O, Wireless I/O & Sensors
- 16 Serial Communication

3U CPCI Serial



Model		MIC-330 V1
Form Factor		3U CPCI-Serial Processor Board
Processor System	CPU	9th Generation Coffeelake Refresh Intel® Xeon/Core™ i3/i5/i7 mobile processors up to 2.7 GHz Intel® Xeon® E-2276ML, 6C/12T, 1.9GHz, TDP 25W, ECC Intel® Core™ i7-9850HL, 6C/12T, 2.0GHz, TDP 25W, non ECC Intel® Core™ i3-9100HL, 4C/4T, 1.6GHz, TDP 25W, ECC
	Chipset	CM246
Memory	Memory	Dual channel DDR4 2666 MHz Max capacity: Up to 32GB, 16GB soldered & 16GB SO-DIMM extension
Onboard Features		Speed: SATAIII SKU1: 2* 2280 M.2 sockets SKU2: 1* 2280 M.2 socket, 1* Super cap & 1* FeRAM reserved for customer request
Front I/O	I/O Ports	SKU1: 2* RJ45 GbE, 2* USB3.0, 2*DP SKU2: 2* RJ45 GbE, 2* USB3.0, 2*DP, 2* M12 X-code GbE, 1* DB9 COM(RS232/422/485)
	LED Indicators	1 x blue/orange for hot swap/ HDD, 1 x green for PWR, 1 x green for master/drone, 1 x Reset button
Backplane Interface	P1/P2/P3/P4/P5/P6	P1 PCIe4.0; 1 x USB3.0 (1 x USB2.0) P2 PCIe4.0, PCIe8, 3 x USB2.0 P3 4 x SATA, 1 x USB3.0, 4 x USB2.0 P4 2 x PCIe4.0, 2 x PCIe1 P5 Clock P6 Up to 3 x GbE (2 GbE to M-1, max 3 GbE to M-2)
	RTM	No
Operating System	Compatibility	Windows10, Linux, Vxworks
Power Consumption	System Full Loading	12V / 60W
Physical Characteristics	Dimensions (W x D)	4HP or 8HP, 160.00 x 100.00 mm
Environment	Operating Temperature	0 ~ 70°C (32 ~ 185°F) under forced-air cooling
Regulatory	Conformance	FCC Class A, CE, RoHS
	Railway Standards	EN50121-4 & EN50155
Compliance	Standards	PICMG® CompactPCI® Serial



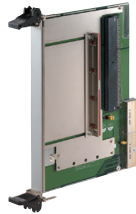
Model		MIC-3810	MIC-3811	MIC-3820	MIC-3860	MIC-3954 D&E	MIC-300
Form Factor		3U CPCI-Serial Peripheral Board					3U CPCI-Serial Chassis
Main Function		PCIe x16 carrier	Dual MiniPCIe carrier	2.5" SATA SSD carrier	4 ports RJ45 or M12 X-code GbE card	Quad M.2 or miniPCIe carrier	3U height 44/84HP enclosure
Front I/O	I/O Ports	PCIe Gen3	PCIe Gen2/USB2.0	SATA 3.0	SKU1: 4 x RJ45 ports SKU2: 4 x M12 ports	PCIe Gen2	–
	LED Indicators	Power	Power	Power	LAN LED: Link/Activity	Power	–
Backplane Interface	P1/P2/P6	P1: PCIe x4 P2: PCIe x4	P1: PCIe x1	P1: SATA 3.0	P1: PCIe x4	P1: PCIe x1	–
	P3/P4/P5 RTM	–	–	–	–	–	–
Chassis Features	Backplane	–	–	–	–	–	SKU1: 9 slot CPCI-Serial backplane SKU2: 7 slot CPCI-Serial backplane
	Cooling	–	–	–	–	–	12x low-noise, single fan with airflow: 9.9 CFM
Operating System	Compatibility	–	–	–	–	–	–
Power Consumption	System Full Loading	Power consumption depending on plugged in module	Power consumption depending on plugged in module	Power consumption depending on plugged in module	10W	Power consumption depending on plugged in module	–
Physical Characteristics	Dimensions (W x D)	3U/8HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/8HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/8HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/4HP 160.00 x 100.00 mm (6.30" x 3.95")	3U/8HP 160.00 x 100.00 mm (6.30" x 3.95")	SKU1: 482.60 x 251.50 x 132.55 mm SKU2: 279.40 x 254.50 x 132.55 mm
Environment	Operating Temperature	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
Compliance	Standards	PICMG CPCI-S.0 R2.0	PICMG CPCI-S.0 R2.0	PICMG CPCI-S.0 R2.0	PICMG CPCI-S.0 R2.0	PICMG CPCI-S.0 R2.0	PICMG CPCI-S.0 R2.0
	Railway Standards	EN50155 EN50121-4	EN50155 EN50121-4	EN50155 EN50121-4	EN50155 EN50121-4	EN50155 EN50121-4	EN50155 EN50121-4

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6U CPCI



Model		MIC-3398	MIC-3399
Form Factor		6U CPCI Legacy Processor Board	
Processor System	CPU	Intel® Atom™ SoC (22nm) E3845, 4C/4T, 1.91 GHz Intel® Celeron J1900, 4C/4T, 2.00 GHz up to quad core 2.00 GHz	Intel® Core™ i3-6100E, 2C/4T, 2.7 GHz Intel® Core™ i7-6820EQ, 4C/8T, 2.8 GHz mobile processors up to 2.8 GHz
	Chipset	-	Intel® C230 Series Chipsets
Memory	Memory	DDR3L 1333 MHz, dual channel without ECC support Up to 8GB	DDR4 2133 MHz, dual channel and ECC support (optional) Up to 32GB (max. 16GB on-board, max. 16GB SODIMM)
Onboard Features	Storage & Others	Speed: SATA II 1 x CFast, 2 x SODIMM	Speed: SATA III SODIMM
Front I/O	I/O Ports	1 x DVI-D, 1 x USB3.0, 3 x USB2.0, 2 x D-Sub9, 2 x RJ45 (can up to 4 x RJ45)	1 x VGA, 3 x RJ45, 3 x USB3.0
	LED Indicators	1 x yellow for HDD, x1 green for Master/Drone mode, and x1 green for Power	1 x blue for Hot Swap, 1x yellow for HDD, x1 green for Master/Drone mode, and x1 green for Power
Backplane Interface	J1/J2	64-bit/33MHz/66MHz	64-bit/33MHz/66MHz
	J3/J4/J5	NO RTM	RTM: RIO-3316 J3: 2 x RJ45, LAN3, LAN4, 1 x USB3.0; 2 x SATA, 1 x USB3.0 J4: 1 x DVI; Pin Header 1 x 2USB3.0, 1 x Audio J5: 1 x USB2.0, 1 x USB3.0, 2 x LAN, 1 x COM, 1 x DVI
Operating System	Compatibility	Win7/WES7, Win8/WES8, Linux, VxWorks 6.x (upon request)	Win7 64bit, Win10 64bit, Linux, VxWorks (upon request)
Power Consumption	System Full Loading	up to 20.41W, +5V:3.91A	Maximum: up to 75W depending on CPU type, +5V: 12A, +3.3V: 5.5A
Physical Characteristics	Dimensions (W x D)	233.35 x 160.0 mm	233.35 x 160.0 mm
Environment	Operating Temperature	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)
Regulatory	Conformance	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS
Compliance	Standards	PICMG2.0 R3.0, PICMG2.1 R.0, PICMG2.9 R1.0	PICMG2.0 R3.0, PICMG2.1 R1.0, PICMG2.9 R1.0, PICMG2.16 R1.0



Model		MIC-3961	MIC-3042	MIC-3666	MIC-3667
Form Factor		6U CPCI Legacy Peripheral Board	6U CPCI Legacy Chassis	XMC Carrier	
Main Function		PCI carrier	4U chassis with 8-slot 6U CPCI Legacy BP, with fan, support RIO	Dual 10GbE LAN card	Quad GbE LAN card
Front I/O	I/O Ports	-	-	2x SFP+ with support for presence detect, status and ID EEPROM	4 x RJ45 ports
	LED Indicators	-	-	Network Link, Activity	4x2 status LEDs to signal link status and activity
Backplane Interface	J1/J2	32-bit/33 MHz, 64-bit/66 MHz	-	-	-
	J3/J4/J5	-	-	-	-
Chassis Features	Backplane	-	System x 1, Peripheral x 7, Rear transition x 8	-	-
	Cooling	-	2 x Fans (front: 193 CFM, rear: 61.3 CFM)	-	-
Operating System	Compatibility	-	-	Linux (with X86 Kernel 2.6.x) Windows Server2003, Server2008	Windows®; Linux
Power Consumption	System Full Loading	1 W @ 33 MHz	AC 100 ~ 254 V @ 50 ~ 60 Hz, full range (MIC-3042X-A)	8.5W	4W
Physical Characteristics	Dimensions	233.35 x 160 mm (9.2" x 6.3") (W x D), 4HP(H)	440 x 177 x 320 mm (17.3" x 7" x 12.6") (W x D x H)	74 x 149 mm (2.9" x 5.78") (W x D)	74 x 139 mm (2.9" x 5.39") (W x D)
Environment	Operating Temperature	0 ~ 60°C (32 ~ 140°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 60°C (32 ~ 140°F)	0 ~ 60°C (32 ~ 140°F)
Regulatory	Conformance	-	RoHS, CE, FCC, UL, CCC	VITA 42.0-2005, 42.3-2006 XMC specifications	VITA 42.0-2005, 42.3-2006 XMC specifications
Compliance	Standards	PICMG 2.0 R3.0 CompactPCI Specification	PICMG 2.0, PICMG 2.1, PICMG 2.11, PICMG 2.16	IEEE Std 1386.1-2001 PMC specification	IEEE Std 1386.1-2001 PMC specification

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IoT Software Solutions

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Intelligent Motion Control Solutions

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High Speed DAQ Solutions

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Industrial Communication

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Intelligent Edge DAQ Devices

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Remote I/O, Wireless I/O & Sensors

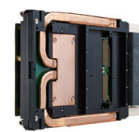
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Serial Communication

VPX



Model		MIC-6314	MIC-6330
Form Factor		6U VPX Processor Board	3U VPX Processor Board
Processor System	CPU	Intel Boardwell-H/Haswell-H Intel® Core™ i7-5850EQ, 4C/8T, 3.4 GHz; Intel® Core™ i5-4402E 2Core, 1.6GHz	Intel® Xeon® E3v5 and E3v6 Processor family E3-1505LV5 4C/8T 2.0GHz 25W; E3-1505LV6 4C/8T 2.2GHz 25W
	Chipset	Intel® QM87	Intel® CM236 Intel® CM238
Memory	Memory	Dual channel DDR3L-1600MHz, support ECC Up to 16GB (max 8GB on board, max 8GB SODIMM)	Dual channel DDR4-2133MHz, support ECC 16GB on board
Onboard Features	Storage	Support 2.5" SSD, 64GB on board NAND Flash 1 M.2 SATA board (optional)	64GB on Board NAND Flash
	Others	1 x XMC HW Monitor, SuperIO, CPLD	HW Monitor, SuperIO, CPLD
Front I/O	I/O Ports	1 x DVI or VGA 2 x 1GbE (RJ45 with LED) 2 x USB 3.0 (Compatible to USB 2.0) + 1 x USB 2.0 1 x COM for console output (RJ45) XMC Site	1 x VGA 1 x GbE 10/100/1000BASE-T (RJ45 with LED) 1 x USB 3.0 (compatible to USB 2.0)
	Button	System reset button/BMC reset button	System reset button/BMC reset button
	LED Indicators	Hot swap/HDD/Power/BMC	Hot swap/HDD/Power/BMC
Backplane Interface	P0	Power+IPMB	Power+IPMB
	P1	2 x PCIe x8 configurable to 1 x 16 or 4 x 4	1 x PCIe x8 (NT Capable, configurable to 2 x PCIe x 4 or 4x PCIe x 2 from Gen.3 switch); 1 x USB 3.0; 2 x USB 2.0; 2 x 10/100/1000Base-T; 2 x 1000Base-BX
	P2	2 x PCIe x8 (1 port NT capable)	2 x SATA-III; DPx1; 2 x USB 2.0; 2 x UART (mode selectable via FPGA setting); 1 x HDA
	P3	—	—
	P4	8d+12d XMC IO; 2x 10/100/1000BT (alter-tive of SerDes)	—
	P5	2 x USB3.0; 2 x USB 2.0; 3 x SATA III; DVI x2+VGA; 2 x COM	—
	P6	2 x 10/100/1000BT; Audio; 3 x USB 2.0; PS/2; 1 x SATA III; 2 x COM	—
	RTM	RIO-6313-A1A1E	No RTM
Operating System	Compatibility	Linux; Windows7	Linux (with the kernel 3.10 or above); Windows10, Windows 7(will need to patch the proper driver)
Power Consumption	System Full Loading	59 W total power envelope with 47W CPU	45W total power envelope with 25W CPU
Physical Characteristics	Dimensions	233.35 x 160 mm (9.2" x 6.3") (WxD), 4HP(H)	160.00 x 100.00 mm (6.3" x 3.95") (WxD), 5HP (H)
Environment	Operating Temperature	-40 ~ 70°C (with 30 CFM airflow)	-40 ~ 70°C (convection cooled) -40 ~ 85°C (card edge, conduction cooled)
Regulatory	Conformance	FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386) FCC class A, CE, RoHS	FCC class A, CE, RoHS
Compliance	Standards	OpenVPX (VITA 65), REDI (VITA 48), IPMI 2.0	OpenVPX (VITA 65), REDI (VITA 48), IPMI 2.0



Model		MIC-6110	MIC-6030	MIC-6130	MIC-6131
Form Factor		6U VPX peripheral board	PCIe/Ethernet hybrid switch card	3U VPX peripheral board	XMC carrier
Main Function		Graphics card carrier	PCIe/Ethernet hybrid switch card	PCIe/ SATA M.2 carrier	XMC carrier
Front I/O	I/O Ports	2 x DVI; 1 x Displayport (output capability depends on the MXM selected) *Note: Available for air-cooled model only	Ethernet: 1 x RJ-45, 10/100/1000BASE-T COM: 1 x miniUSB connector (BMC RS232 console redirection port) SPF+: 10G (available on the multiple-host SKU only)	No front I/O	No front I/O
	LED Indicators	—	—	Hot-Swap, Power, SSD1_active, SSD2_active, SSD3_active	Hot-Swap, Power
Backplane Interface	P0	Power	Power+IPMB	Power	Power
	P1	1x PCIe16	4x PCIe x4	1x PCIe x4	Data Plane 1x PCIe x8 + optional PCIe output 1 x PCIe x8
	P2	—	2x PCIe x4; 6x1000Base-BX; 1x10/100/1000BASE-T; RS232	2x SATA III	Optional X24S+X8D+X12D pin out
	P3	—	—	—	—
	P4	—	—	—	—
	P5	4x Displayport	—	—	—
Operating System	Compatibility	Windows 7 or above; Linux (depends on the selected MXM module)	Linux and Windows 8.1, Windows 10, Windows Server 2012, Windows Server 2016	Windows 7 or above; Linux (depends on the selected M.2 module)	—
Power Consumption	System Full Loading	71W total power envelope with GTX 1060 MXM module	29W total power envelope with multi-host NIC	—	Depends on the actual XMC power consumption
Physical Characteristics	Dimensions	160 x 100mm (6.3" x 3.95") (W x D), 5HP (H)	160 x 100 mm (6.3" x 3.95") (W x D), 5HP (H)	160 x 100 mm (6.3" x 3.95") (W x D), 5HP (H)	160 x 100 mm (6.3" x 3.95") (W x D), 5HP (H)
Environment	Operating Temperature	-30 ~ +85°C (Depends on the selected MXM module)	-40 ~ +85°C	—	—
Regulatory	Conformance	—	FCC class A, CE, RoHS FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386)	—	FCC class A, CE, RoHS FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386)
Compliance	Standards	OpenVPX (VITA 65), REDI (VITA 48)	OpenVPX (VITA 65), REDI (VITA 48)	OpenVPX (VITA 65), REDI (VITA 48)	OpenVPX (VITA 65), REDI (VITA 48)

✓: supported, —: not supported, △: optional

