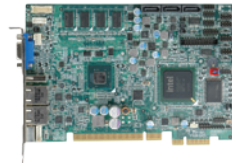
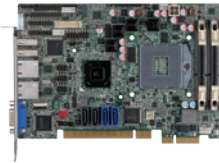
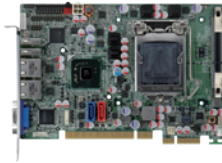


Half-size PICOe, ISA Selection Guide



Model Name	PICOe-B650	PICOe-HM650	PICOe-PV-D4251/N4551/D5251-R11
CPU Socket	LGA 1155	Socket G2	On board
CPU Type	Socket LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU	Socket 988B Intel® Mobile Core™ i7/i5/i3 or Celeron® CPU	Intel® Atom™ D525 1.80GHz Intel® Atom™ D425 1.80GHz Intel® Atom™ N455 1.66GHz
Chipset	Intel® B65	Intel® HM65	Intel® ICH8M
Memory	One 204-pin 1333/1066 MHz DDR3/DDR3L (1.35V) SO-DIMM supported (system max. 8 GB)	Two 204-pin 1333/1066 MHz dual-channel DDR3 SO-DIMMs supported (system max. 16 GB)	One 204-pin 800 MHz DDR3 SDRAM SO-DIMM (system max. 4 GB for D525/D425, 2 GB for N455) (compatible with 128MB*8 SDRAM) On-board 1 GB 800 MHz DDR3 memory
Display Interface	1 x VGA	Dual display supported 1 x VGA 1 x 18/24-bit dual-channel LVDS	Dual display supported 1 x VGA 1 x 18/24-bit single-channel LVDS
Ethernet	LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support LAN2: Realtek RTL8111E PCIe GbE controller	LAN1: Realtek RTL8111E GbE controller with ASF 2.0 support LAN2: Realtek RTL8111E GbE controller	LAN1: Realtek RTL8111E GbE controller with ASF 2.0 support LAN2: Realtek RTL8111E GbE controller
I/O Interface	1 x 6-pin wafer for KB & MS 2 x RS-232 4 x USB 2.0	1 x 6-pin wafer for KB & MS 1 x LPT 1 x RS-422/485 2 x RS-232 8 x USB 2.0	1 x 6-pin wafer for PS/2 KB & MS 1 x LPT 1 x PS/2 KB & MS 1 x RS-232/422/485 3 x RS-232 7 x USB 2.0
Driver Interface	1 x SATA 3Gb/s 1 x SATA 6Gb/s	2 x SATA 3Gb/s 2 x SATA 6Gb/s	1 x CF Type II 3 x SATA 3Gb/s
Audio	IEI AC-KIT-892HD-R10 7.1-channel HD Audio kit via the on-board 10-pin header connector		
Digital I/O	8-bit digital I/O		
Power Consumption	5V@3.17A, 12V@0.46A, Vcore_12V@7.26A, 5VSB@0.18A (3.4GHz Intel® Core™ i7-2600K with two 2 GB 1333 MHz DDR3 memory)	5V@3.99A, 12V@0.43A, Vcore_12V@3.80A, 5VSB@0.06A (2.70GHz Intel® Core™ i7-2620M with two 2 GB 1333 MHz DDR3 memory)	5V@3.38A, 12V@0.54A (Intel® dual-core Atom™ D525 1.80GHz CPU with 1 GB 800 MHz DDR3 on-board memory) 5V@3.28A, 12V@0.43A (Intel® single-core Atom™ D425 1.80GHz CPU with 1 GB 800 MHz DDR3 on-board memory) 5V@3.13A, 12V@0.32A (Intel® single-core Atom™ N455 1.66GHz CPU with 1 GB 800 MHz DDR3 on-board memory)
Watchdog Timer	Software programmable supports 1~255 sec. system reset		
Operation Environment	Temperature Range: -10°C ~ 60°C Relative Humidity: 5% ~ 95%, non-condensing		Temperature Range: -20°C ~ 65°C (-4°F ~ 149°F) with free air for D425 CPU -20°C ~ 60°C (-4°F ~ 140°F) with free air for D525 CPU -20°C ~ 70°C (-4°F ~ 158°F) with free air for D525 CPU -20°C ~ 70°C (-4°F ~ 158°F) with force air for D425/D525 CPU -20°C ~ 75°C (-4°F ~ 167°F) with force air for N455 CPU Relative Humidity: 5% ~ 95%, non-condensing
Expansion Slot	NA	NA	NA
CPU Cooler	CF-1156A/C/D/E	CF-989A-RS-R12	Heatsink (fanless) (optional CPU fan by 19FFD124010HB2A7-000001-RS)

1

Industrial
Computing
Solutions

2

Video
Capture
Solutions

3

Industrial
Computer
Chassis

4

Open
Frame
Monitor

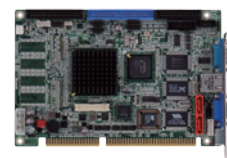
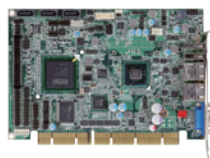
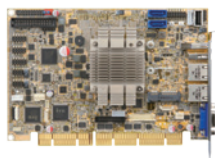
5

Power Supply/
Peripherals

6

All-in-One
System

Half-size PICOe, ISA Selection Guide

New

Model Name	PCISA-BT	PCISA-PV-D5251	IOWA-LX
CPU Socket	On board	On board	On board
CPU Type	Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W) Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)	Intel® Atom™ D525 1.80GHz	AMD Geode™ LX600
Chipset	N/A	Intel® ICH8M	AMD Geode™ CS5536
Memory	One 204-pin 1066/1333 MHz single-channel DDR3L SDRAM unbuffered DIMM (system max. 8 GB)	One 204-pin 800 MHz DDR3 SDRAM SO-DIMM (system max. 4 GB)	On-board 128MB 200/266 MHz DDR SDRAM One 200-pin 200/266 MHz DDR SO-DIMM (system max. 512MB)
Display Interface	Dual display supported 1 x VGA 1 x iDP interface	Dual display supported 1 x VGA 1 x 18-bit single-channel LVDS	1 x VGA
Ethernet	LAN1: Intel® I211-AT PCIe controller LAN2: Intel® I211-AT PCIe controller	LAN1: Realtek RT8111E with ASF 2.0 support LAN2: Realtek RT8111E	10/100Mbps Realtek RTL8100C Ethernet controller
I/O Interface	1 x 6-pin wafer for KB/MS 1 x LPT 1 x RS-422/485 2 x RS-232 2 x USB 3.0 8 x USB 2.0	1 x Infrared interface 1 x LPT 1 x PS/2 KB & MS 1 x RS-232/422/485 3 x RS-232 6 x USB 2.0	1 x Infrared interface 1 x LPT 1 x PS/2 KB/MS 1 x RS-422/485 2 x RS-232 4 x USB 2.0 (by pin header)
Driver Interface	1 x mSATA (colay SATA2, supports SATA 3Gb/s signal only) 2 x SATA 3Gb/s	1 x CF Type II 1 x FDD 1 x IDE 3 x SATA 3Gb/s	1 x CF Type II 1 x FDD 1 x IDE 2 x SATA (RAID 0, 1)
Audio	IEI AC-KIT-892HD-R10 7.1-channel HD Audio kit via the on-board 10-pin header connector		Realtek ALC203 with AC'97 codec
Digital I/O	8-bit digital I/O		
Power Consumption	5V@1.55A, 12V@0.74A (Intel® Atom™ E3845 1.91GHz CPU, one 8 GB 1600 MHz memory)	5V@3.36A, 12V@0.57A (Intel® dual-core Atom™ D525 1.80GHz with 1 GB 1066 MHz DDR3 memory)	5V@1.51A, 5VSb@0.09A (On-board AMD Geode™ LX600 CPU 366 MHz with on-board 128MB 200 MHz DDR memory and 512MB 333 MHz DDR memory)
Watchdog Timer	Software programmable and supports 1~255 sec. system reset		
Operation Environment	Temperature Range: -20°C ~ 60°C (-4°F ~ 140°F) Relative Humidity: 5% ~ 95%, non-condensing	Temperature Range: -20°C ~ 60°C (-4°F ~ 140°F) with free air for D525 CPU -20°C ~ 70°C (-4°F ~ 158°F) with free air for D525 CPU -20°C ~ 70°C (-4°F ~ 158°F) with force air for D525 CPU Relative Humidity: 5% ~ 95%, non-condensing	Temperature Range: 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95%, non-condensing
Expansion Slot	1 x PCIe Mini slot	NA	NA
CPU Cooler	NA	Heatsink (fanless) (optional CPU fan by 19FFD124010HB2A7-000001-RS)	Heatsink (fanless)

1

Industrial Computing Solutions

2

Video Capture Solutions

3

Industrial Computer Chassis

4

Open Frame Monitor

5

Power Supply/Peripherals

6

All-in-One System