

Half Size PCISA Selection Guide



Model Name	PCISA-6770E2-RS	PCISA-6612LVDS	PCISA-6755E-RS	PCISA-LUKE	PCISA-MARK
CPU Socket	On-Board / Socket 479	Socket 479	Socket 370	On-board	On-board
CPU Type	Intel® Pentium® M/ Celeron® M(Dothan & Banias core) Celeron® M 600MHz 512K cache /1GHz 0 cache	Intel® Petium® M Celeron® M (Dothan & Banias core)	Intel® Pentium® III/ Tualain/ Celeron®	VIA® LUKE 533MHz/1GHz	VIA® MARK 533/800MHz
FSB	400MHz	400/533 MHz	133 MHz	N/A	N/A
Chipset	Intel® 852GM + ICH4	SiS® 661CX + SiS® 966	VIA® VT8606T + VT82C686B	VIA® LUKE + VT8237R+	VIA® MARK + VIA VT82C686B
Memory	1 x 184-pin, Max.1GB, DDR 266MHz	1x 184-pin, Max.1GB, 333/400MHz DDR	1 x 168-pin, Max.1GB, PC133MHz SDRAM	1x 184-pin, Max.1GB, DDR333/400MHz	On-board 128 MB Memory 1 x 168-pin, Max.512 MB, PC100/133 SDRAM
Display Interface	VGA integrated in the Intel® 852GM 18-bit Dual channel LVDS	VGA integrated in the SiS 661CX 24-bit Dual channel LVDS	VGA integrated in the VT8606T LVDS: Dual channel 18-bit LVDS	VGA integrated in the VIA LUKE 24-bit TTL 18/24-bit dual channel LVDS by ILUKE Module	VGA integrated in the VIA® MARK 24 bits TTL 18-bit dual channel LVDS
Ethernet	Dual 10/100Mbps Intel ® 82562ET/ 82551ER Ethernet	Dual PCIe GbE Broadcom BCM5787	10/100Mbps Realtek RTL8100BL Fast Ethernet	1 x RTL8110S GbE	Dual 10/100Mbps Realtek RTL8100C Ethernet
I/O Interface	1 x RS-232 1 x RS-232/422/485 5 x USB 2.0 1 x LPT 1 x IrDA 1 x PS/2 for KB/MS	2 x RS-232 5 x USB 2.0 1 x LPT 1 x IrDA 1 x PS/2 for KB/MS	2 x RS-232 4 x USB 2.0 1 x LPT 1 x IrDA 1 x PS/2 for KB/MS	2 x RS-232 7 x USB 2.0 1 x LPT 2 x PS/2 for KB/MS	2 x RS-232 4 x USB 1.1 1 x LPT 2 x PS/2 for KB/MS 1 x IrDA
Drive Interface	2 x IDE 1 x FDD	4 x SATA RAID 1 x IDE 1 x FDD	2 x IDE 1 x FDD	2 x SATA RAID 1 x FDD 2 x IDE	2 x SATA 2 x IDE 1x FDD
Audio	Realtek ALC655 with AC'97 CODEC	5.1 channel audio kit with Realtek ALC655 AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec	Realtek ALC655 with AC'97 codec
SSD	CF Type II	CF Type II	CF Type II	CF Type II	CF Type II
Digital I/O	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)
Power consumption	5V@3.5A, 12V@1.9A, (Pentium® M 1.7GHz@400MHz , 512 MB 266MHz DDR)	5V@6.1A, 12V@0.17A (Pentium 4 2.13GHz, 1GB 400MHz DDR)	5V@2.0A, 12V@0.3A (Pentium® III 1.0GHz, 256MB SDRAM)	5V@2A, 12V@0.073A (LUKE 1GHz, 256MB DDR400MHz)	5V@2.52 (Mark 533MHz, 512MB PC133MHz SDRAM) 5V@2.94 (Mark 800MHz, 512MB PC133MHz SDRAM)
Watchdog Timer	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset
Operation Environment	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing
Expansion Slot	PCI/ISA	PCI/ISA	PCI/ISA	PCI/ISA	PCI/ISA
CPU Cooler	CF-518-RS	CF-479B-RS	CF-370A-RS / CF-504-RS / CF-507-RS / CF-512-RS / CF-513-RS	Heatsink for LUKE 533MHz CPU cooler for LUKE 1GHz	Heatsink

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Single
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CARD

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Xscale
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VITO
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Peripherals

Half Size PCISA, PICOe Selection Guide

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	PCISA				PICOe	
Model Name	PCISA-LX	PCISA-8450G	PCISA-C400R-RS	PCISA-C800EVR-RS-1G	PICOe-9452	PICOe-6612
CPU Socket	On-board	Socket 478	On-board	On-board	Socket 479	Socket 479
CPU Type	AMD® Geode® LX800	Intel® Pentium® 4/ Celeron® D	Intel® ULV Celeron® 400 MHz	VIA® C3 1GHz	Intel® Core 2 Duo / Core Duo / Core Solo	Intel® Pentium® M / Celeron® M support up to 2.26GHz
FSB	N/A	533 MHz	100MHz	133MHz	677MHz	400/533MHz
Chipset	AMD® CS5536	Intel® 845GV+ICH4	VIA® VT8601A + VT82C686B	VIA® VT8601T + VT82C686B	Intel 945GM + ICH7M	SiS661CX + SiS966
Memory	1 x 184-pin, Max.1GB, 333/400MHz DDR SO-DIMM	1 x 184-pin, Max.1GB, 266/333MHz DDR	1 x 168-pin, Max.512MB, PC100/133 MHz SDRAM	1 x 168-pin, Max.512MB, PC100/133 MHz SDRAM	2 x 240-pin, Max. 4GB, 400/533/667MHz DDRII	1 x 184-pin, Max. 1GB, 333/400MHz DDR
Display Interface	VGA integrated in the LX800 24-bit TTL 18-bit single channel LVDS	VGA integrated in the Intel® 845GV	VGA integrated in the VIA VT8601A	VGA integrated in the VIA VT8601T	VGA integrated in the Intel 945GM 18-bit dual channel LVDS	VGA integrated in the SiS661CX 24-bit dual channel LVDS
Ethernet	Dual 10/100Mbps Realtek RTL8100C Ethernet chipsets	Realtek RTL8110SC GbE chipset	10/100Mbps Realtek RTL8100B Ethernet chipset	10/100Mbps Realtek RTL8100B Ethernet chipset	Intel 82573 PCIe GbE chipset Intel 82562 Ethernet chipset	Dual Realtek RTL8110S GbE chipsets
I/O Interface	3 x USB2.0 1 x RS-232 1x RS-232/422/485 1x LPT 1x IrDA 1x PS/2 for KB/MS	2 x RS-232 4 x USB 2.0 1 x LPT 1 x PS/2 for KB/MS	1 x RS-232 1 x RS-232/ 422/ 485 4 x USB 1.1 1 x LPT 1 x PS/2 for KB/MS	4 x USB 1.1 1 x RS232, 1x RS232/ 422/ 485 1 x LPT 1 x PS/2 for KB/MS	2 x RS-232 5 x USB 2.0 1 x LPT 1 x IrDA	2 x RS-232 5 x USB2.0 1 x LPT
Drive Interface	2 x SATA RAID 1x IDE 1x FDD	2 x SATA RAID 2 x IDE 1 x FDD	2 x IDE 1 x FDD	2 x IDE 1 x FDD	2 x SATA II 1 x IDE	4 x SATA RAID 1 x IDE 1 x FDD
Audio	Realtek ALC203 with AC'97 codec	Realtek ALC655 with AC'97 codec	2.1 channel VIA VT1612A AC'97 codec	2.1 channel VIA VT1612A AC'97 codec	5.1 channel audio kit with Realtek ALC655 AC'97 codec 7.1 channel HD audio kit with Realtek ALC883 supports dual audio streams	5.1 channel audio kit with Realtek ALC655 AC'97 codec
SSD	CF Type II	CF Type II	CF Type II DOC	CF Type II DOC	CF type II	CF type II
Digital I/O	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)
Power consumption	5V@1.094A, 12V@0.07A (LX800, 256MB DDR 400MHz)	5V@2.9A, 12V@5.4A, (Pentium® 4 2.53GHz, 256MB DDR266)	5VSB@0.18A, 5V@2.6A, 12V@0.17A, (ULV Celeron, 512MB PC133MHz SDRAM)	5V@3.9A, 12V@0.2A, 5VSB@0.18A (VIA C3 1GHz, 512MB PC133MHz SDRAM)	5V@3.49A, 3.3V@0.2A, 12V@1.75A (Intel Core 2 Duo T7400 2.16GHz, 512MB 667MHz DDR2)	5V@6.59A, 12V@0.12A (Pentium M 2.13GHz@533MHz, 1GB DDR400MHz)
Watchdog Timer	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset
Operation Environment	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity 5% ~ 95% non-condensing
Expansion Slot	PCI/ISA	PCI/ISA	PCI/ISA/PC/104	PCI/ISA/PC/104	PCI/PCI-E	PCI/PCI-E
CPU Cooler	Heatsink	CF-478A-RS / CF-478B-RS / CF-514-RS / CF-519-RS / CF-521-RS	Fanless	Fanless	CF-479B-RS	CF-479B-RS

Half Size PICO, ISA Selection Guide



Model Name	PICO-8522	PICO-LX	IOWA-MARK	IOWA-GX
CPU Socket	On-board / Socket 479	On Board	On-board	On-board
CPU Type	Intel® Petium® M Celeron® M (Dothan & Banias core) On-board ntel® Celeron® M 600MHz 512K cache / 1GHz zero cache	AMD® Geode® LX800	VIA® MARK 533/800MHz	AMD® Geode® GX466
FSB	400MHz	N/A	N/A	N/A
Chipset	Intel 852GM + ICH4	AMD® Geode® LX800 + AMD® CS5536	VIA® MARK + VIA VT82C686B	AMD® Geode® GX466 + AMD® CS5536
Memory	1x 184-pin, Max.1GB, 200/266MHz DDR	1x 200-pin, Max.1GB, 333/400MHz DDR SO-DIMM	On-board 128MB memory 1x 168-pin, Max. 512MB, PC100/133MHz SDRAM	On-board 128MB memory 1x 200-pin, Max.512MB, 266MHz DDR SO-DIMM
Display Interface	VGA integrated in the Intel® 852GM 18-bit dual channel LVDS DVI (PICO-8522DVI/8522DVI-1GZ by IO-KIT-001)	VGA integrated in LX800 24-bit TTL 18-bit single channel LVDS	VGA integrated in the VIA® Mark 24-bit TTL	VGA integrated in the AMD® Geode® GX466 24-bit TTL
Ethernet	Dual GbE RTL8110SC chipsets	10/100Mbps Realtek RTL8100C Ethernet chipset	10/100Mbps Realtek RTL8100C Ethernet chipset	10/100Mbps Realtek RTL8100C Ethernet chipset
I/O Interface	2 x RS-232 5 x USB 2.0 1 x LPT 1 x PS/2 for KB/MS	4 x USB 2.0 2 x RS-232 1x RS-422/485 1 x LPT 1 x PS/2 for KB/MS	2 x RS-232 4 x USB 1.1 1 x LPT 1 x IrDA 1 x PS/2 for KB/MS	2 x RS-232 1 x RS-422/485 4 x USB 2.0 1 x LPT 1 x IrDA 1 x PS/2 for KB/MS
Drive Interface	2 x IDE 1 x FDD	2 x SATA RAID 2 x IDE	2 x SATA RAID (IOWA-MARK-533S-128MB-R10/800S-128MB-R10) 1 x IDE 1 x IDE, 1 x FDD	2 x SATA RAID (IOWA-GX466S-128M-R10) 1 x IDE 1 x FDD
Audio	5.1 channel audio kit with Realtek ALC655 AC'97 codec	Realtek AL203 with AC'97 Codec	Realtek ALC655 with AC'97 Codec	Realtek ALC203 with AC'97 Codec
SSD	CF Type II	CF Type II	CF Type II	CF Type II
Digital I/O	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)	8-bit digital I/O (4 input/4 output)
Power consumption	5V@4.64 (Celeron M 1.6GHz, 1GB DDR 333MHz)	5V@1.73A (LX800, 1GB DDR 400MHz)	5V@2.99A, 12V@0.09A (MARK 800MHz, On- board 128MB & PC133MHz 128MB) 5V@2.81A, 12V@0.04A (MARK 533MHz, On-board 128MB & PC133MHz 128MB)	5V@0.92A (AMD GX 466, 256MB 266MHz DDR)
Watchdog Timer	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset	software programmable and supports 1~255 sec. system reset
Operation Environment	Temperation Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperation Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperation Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing	Temperation Range 0°C ~ 60°C (32°F ~ 140°F) Relative Humidity: 5% ~ 95% non-condensing
Expansion Slot	PCI	PCI	PCI	PCI
CPU Cooler	CF-479B-RS	Heatsink	Heatsink	Heatsink

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Single Board Computer

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VIDEO CARD

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