

Selection Guide

3.5" CPU Boards

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9 Artikel aus dem Bereich
3.5" CPU Boards
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Selection Guide 3.5" CPU Boards



Single Board Computer 551 - 8th/9th Generation

Single Board Computer 551 - 7th Generation

Single Board Computer 553

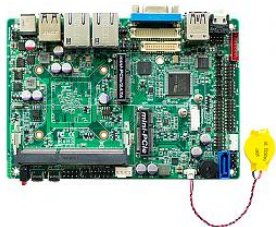
3.5" CAPA (146 x 105 CPU)	x	x	x
CPU	8th/9th Gen Intel® Core™ Processors	Intel® Core i7 / i5 / i3 7th gen. / Celeron® 3965U Processor, Dual Core, BGA 1356	Intel® Core i7 / i5 / i3 7th gen. / Celeron® 3965U Processor, Dual Core, BGA 1356
CPU Socket	LGA 1151 Socket	-	-
FSB Frequency	-	-	-
Chipset	Intel® Core i3-8100T/9100TE/Pentium G5400T/Pentium G4900T	-	-
BIOS	AMI SPI 128Mbit	Insyde SPI 128Mbit	Insyde SPI 128Mbit
Watchdog Timer	Output & Interval: System Reset, Programmable via Software from 1 to 255 Seconds	Output & Interval: System Reset, programmable via Software from 1 to 255 Seconds	Output & Interval: System Reset, programmable via Software from 1 to 255 Seconds
Controller	Intel® UHD 630 Graphics GT Series	-	-
Maximum Equipment	32GB	16GB	16GB
SDRAM	-	-	-
DIMM / MemorySocket	1x 260-pin SODIMM DDR4 2.666MHz	1x 260-pin SODIMM DDR4 1.866 / 2.133MHz	1x 260-pin SODIMM DDR4 1.866 / 2.133MHz
FDD	-	-	-
Compact Flash	-	-	-
HD SATA	1x SATA 3.0 (up to 6Gb/s), 1x SATA Power	1x SATA 3.0 (up to 6Gb/s), 1x SATA Power	1x SATA 3.0 (up to 6Gb/s), 1x SATA Power
HD PATA	-	-	-
Graphic Interface	1x VGA/CRT, 2x DP++ DisplayPort, 1x LCD-LVDS	1x VGA/CRT, 1x DP++ DisplayPort, 1x LCD-LVDS	1x VGA/CRT, 1x DP++ DisplayPort, 1x LCD-LVDS
Interface COM	2x RJ-45	2x RS232/422/485	1x RS232/422/485
CAN	-	-	-
Interface USB	2x USB 2.0, 4x USB 3.0	2x USB 2.0, 4x USB 3.0	2x USB 2.0, 4x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T
Interface IO	1x 8-bit DIO GPIO	1x 8-bit DIO GPIO	1x 8-bit DIO GPIO
Mini PCIe	1x	1x	1x
Mini PCI	-	-	-
IrDA	-	-	-
LPT	-	-	-
PS/2	-	-	-
Sound	Realtek ALC262	Realtek ALC888	Realtek ALC888
Audio	1x Audio (Line-out / Mic-in)	1x Audio (Line-out / Mic-in)	1x Audio (Line-out / Mic-in)
PCI	-	-	-
PCIe	-	-	-
PCI/104	-	-	-
Operating System Support	Windows 10 IoT Enterprise (64-bit)/Linux	Windows 10 IoT / Ubuntu 16.04 / Yocto	Windows 10 IoT / Ubuntu 16.04
Input Voltage Nominal	-	12VDC +/-5%	-
Input Voltage Min/Max	12VDC	-	9 to 36VDC
Power Management	-	-	-
Battery	CR2032 Coin Cell	RTC Battery: CR2032 Coin Cell	RTC Battery: CR2032 Coin Cell
Operating Temperature	5 to 65°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-30 to 80	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Relative Humidity	5% to 90% RH (Operating / Storage)	5% to 90% RH (Operating / Storage)	5% to 90% RH (Operating / Storage)
Protection	Security - TPM 2.0: fTPM2.0	Security - TPM: fTPM, TPM2.0	Security - TPM: fTPM 2.0
MTBF	PBAS5414/-1/-2: o 740.203 hrs @ 25°C o 462.070 hrs @ 45°C o 305.215 hrs @ 60°C o 227.949 hrs @ 70°C PBAS5415/-1/-2: o 742.388 hrs @ 25°C o 464.078 hrs @ 45°C o 306.773 hrs @ 60°C o 229.188 hrs @ 70°C	477.146 hrs @ 25°C; 277.228 hrs @ 45°C; 172.875 hrs @ 60°C	606.151 hrs @ 25°C; 394.265 hrs @ 45°C; 267.894 hrs @ 60°C
Certification	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs
Certification	Industrial	Industrial	Industrial

Bestellinformation	Artikel-Nr. PBAS5414 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen2,USB2.0,12V, -5°C to 65°C	Artikel-Nr. PBAS5400 Single Board Computer 551, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C	Artikel-Nr. PBAS5404 Single Board Computer 553, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C
	Artikel-Nr. PBAS5414-1 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen1,USB2.0,12V, -5°C to 65°C	Artikel-Nr. PBAS5400-1 Single Board Computer 551, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C	Artikel-Nr. PBAS5404-1 Single Board Computer 553, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C
	Artikel-Nr. PBAS5414-2 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen2,USB2.0,12V, -5°C to 65°C	Artikel-Nr. PBAS5401 Single Board Computer 551, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C	Artikel-Nr. PBAS5405 Single Board Computer 553, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C
	Artikel-Nr. PBAS5415 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen2,USB2.0,12V, -30°C to 80°C	Artikel-Nr. PBAS5401-1 Single Board Computer 551, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C	Artikel-Nr. PBAS5405-1 Single Board Computer 553, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C
	Artikel-Nr. PBAS5415-1 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen1,USB2.0,12V, -30°C to 80°C	Artikel-Nr. PBAS5402 Single Board Computer 551, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C	Artikel-Nr. PBAS5406 Single Board Computer 553, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C
	Artikel-Nr. PBAS5415-2 SBC551, 9th/8th Gen Intel , DDR4 SODIMM 32GB, 3,5", 2xGbE,DP++,4xUSB 3.1Gen2,USB2.0,12V, -30°C to 80°C	Artikel-Nr. PBAS5402-1 Single Board Computer 551, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C	Artikel-Nr. PBAS5406-1 Single Board Computer 553, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C
		Artikel-Nr. PBAS5403 Single Board Computer 551, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C	Artikel-Nr. PBAS5407 Single Board Computer 553, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C
		Artikel-Nr. PBAS5403-1 Single Board Computer 551, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C	Artikel-Nr. PBAS5407-1 Single Board Computer 553, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C

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Single Board Computer 355A



Single Board Computer 355X



Single Board Computer 355

3.5" CAPA (146 x 105 CPU	x	x	x
CPU	Intel® Atom® N2930 SoC processor, 1.8GHz	Support Intel® Atom processor E3800 product family	Intel Atom processor E3800 product family
CPU Socket	-	-	-
FSB Frequency	-	-	-
Chipset	-	-	-
BIOS	AMI 64MB Flash ROM	AMI BIOS	AMI BIOS
Watchdog Timer	1 to 255 sec./min. programmable	1 to 255 sec, 1 to 255 min (tolerance 15% under room temperature 25°C)	-
Controller	-	-	Atom processor E3800 product family
Maximum Equipment	8GB	8GB	8GB
SDRAM	x	x	-
DIMM / MemorySocket	DDR3L 1.333MHz SO-DIMM	SO-DIMM	DDR 3 SO-DIMM
FDD	-	-	-
Compact Flash	-	-	-
HD SATA	1x SATAII 3Gb/s	2x SATA2.0	2x SATA2.0
HD PATA	-	-	-
Graphic Interface	1x VGA/CRT, 1x eDP DisplayPort, 1x LCD-LVDS	1x VGA/CRT, 1x HDMI, 1x LCD-LVDS	1x VGA/CRT, 1x HDMI, 2x LCD-LVDS
Interface COM	3x RS232, 1x RS232/485/422 by COM1	3x RS232, 1x RS232/422/485	3x RS232, 1x RS232/422/485
CAN	-	-	-
Interface USB	7x USB 2.0, 1x USB 3.0	4x USB 3.0	4x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T
Interface IO	4x In, 4x Out GPIO	4x In, 4x-Out GPIO	4x In, 4x Out GPIO
Mini PCIe	2x	2x	2x
Mini PCI	-	-	-
IrDA	-	-	-
LPT	-	-	-
PS/2	-	1x	-
Sound	-	Realtek ALC886 CODEC for High Definition	Realtek ALC886 CODEC for High Definition
Audio	1x HD Audio Jack (Line-out), 1x SPDIF out header, 1x audio header	Mic-In, Line-Out, Speaker-Out	1x Mic-in, 1x Line-out, 1x Speak-out
PCI	-	-	-
PCIe	-	2x Mini-PCIe	2x Mini PCIe
PC/104	-	-	-
Operating System Support	Windows 10 / 8.1 / 7 / Linux	-	-
Input Voltage Nominal	-	12VDC	12VDC
Input Voltage Min/Max	9 to 24VDC	5 to 12V	-
Power Management	-	-	-
Battery	-	1x external Li-ion battery	-
Operating Temperature	0°C to 60°C	-40°C to 85°C	-20°C to 60°C
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-25°C to 85°C
Relative Humidity	10% to 90% (operating, non-condensing)	10% to 90% (operating, non-condensing) 5% to 95% (non-operating, non-condensing)	10% to 90%, operating, non-condensing 5% to 95%, non-operating, non-condensing
Protection	-	-	-
MTBF	-	-	-
Certification	CE, FCC	CE, FCC	CE, FCC
Certification	Industrial	Industrial	Industrial
Bestellinformation	Artikel-Nr. PBAS5369 Single Board Computer 355A-N2930, Intel Atom N2930, 2x GbE, VGA, LVDS, eDP, 0°C to 60°C	Artikel-Nr. PBAS5364 Single Board Computer 355X-3826, Intel Atom E3826, VGA, HDMI, LVDS, -40°C to 85°C Artikel-Nr. PBAS5365 Single Board Computer 355X-3845, Intel Atom E3845, VGA, HDMI, LVDS, -40°C to 85°C	Artikel-Nr. PBAS5361 Single Board Computer 355-3826, Intel Atom E3826, 7 Watt CPU, VGA, HDMI, LVDS, -20°C to 60°C Artikel-Nr. PBAS5362 Single Board Computer 355-3845, Intel Atom E3845, 10 Watt CPU, VGA, HDMI, LVDS, -20°C to 60°C

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Single Board Computer 357X



Single Board Computer 551 - 7th Generation



Single Board Computer 553

3.5" CAPA (146 x 105)	x	x	x
CPU	Intel® Atom E3950 / E3930 processor, 1.8GHz / 2.0GHz, Quad / Dual Core	Intel® Core i7 / i5 / i3 7th gen. / Celeron® 3965U Processor, Dual Core, BGA 1356	Intel® Core i7 / i5 / i3 7th gen. / Celeron® 3965U Processor, Dual Core, BGA 1356
CPU Socket	-	-	-
FSB Frequency	-	-	-
Chipset	-	-	-
BIOS	AMI	Insyde SPI 128Mbit	Insyde SPI 128Mbit
Watchdog Timer	-	Output & Interval: System Reset, programmable via Software from 1 to 255 Seconds	Output & Interval: System Reset, programmable via Software from 1 to 255 Seconds
Controller	-	-	-
Maximum Equipment	16GB	16GB	16GB
SDRAM	x	-	-
DIMM / MemorySocket	Dual DDR3L SO-DIMM	1x 260-pin SODIMM DDR4 1.866 / 2.133MHz	1x 260-pin SODIMM DDR4 1.866 / 2.133MHz
FDD	-	-	-
Compact Flash	-	-	-
HD SATA	2x SATA 2.0	1x SATA 3.0 (up to 6Gb/s), 1x SATA Power	1x SATA 3.0 (up to 6Gb/s), 1x SATA Power
HD PATA	-	-	-
Graphic Interface	1x VGA/CRT, 1x HDMI, 1x LCD-LVDS	1x VGA/CRT, 1x DP++ DisplayPort, 1x LCD-LVDS	1x VGA/CRT, 1x DP++ DisplayPort, 1x LCD-LVDS
Interface COM	3x RS232, 1x RS232/422/485	2x RS232/422/485	1x RS232/422/485
CAN	-	-	-
Interface USB	4x USB 3.0	2x USB 2.0, 4x USB 3.0	2x USB 2.0, 4x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x 10/100/1000 BASE-T, Optional PoE	2x 10/100/1000 BASE-T	2x 10/100/1000 BASE-T
Interface IO	4x In, 4x Out GPIO	1x 8-bit DIO GPIO	1x 8-bit DIO GPIO
Mini PCIe	1x	1x	1x
Mini PCI	-	-	-
IrDA	-	-	-
LPT	-	-	-
PS/2	x	-	-
Sound	Realtek ALC886	Realtek ALC888	Realtek ALC888
Audio	Mic-In, Line-Out, Speak-Out	1x Audio (Line-out / Mic-in)	1x Audio (Line-out / Mic-in)
PCI	-	-	-
PCIe	1x mini-PCIe slot	-	-
PC/104	-	-	-
PCI/104	-	-	-
Operating System Support	-	Windows 10 IoT / Ubuntu 16.04 / Yocto	Windows 10 IoT / Ubuntu 16.04
Input Voltage Nominal	+12 VDC	12VDC +/-5%	-
Input Voltage Min/Max	-	-	9 to 36VDC
Power Management	-	-	-
Battery	-	RTC Battery: CR2032 Coin Cell	RTC Battery: CR2032 Coin Cell
Operating Temperature	-40°C to 85°C	0°C to 60°C	0°C to 60°C
Extended Operating Temperature	-	-20°C to 70°C	-20°C to 70°C
Storage Temperature	-	-40°C to 85°C	-40°C to 85°C
Relative Humidity	10% to 90% (operating, non-condensing) 5% to 95% (non-operating, non-condensing)	5% to 90% RH (Operating / Storage)	5% to 90% RH (Operating / Storage)
Protection	-	Security - TPM: fTPM, TPM2.0	Security - TPM: fTPM 2.0
MTBF	-	477.146 hrs @ 25°C; 277.228 hrs @ 45°C; 172.875 hrs @ 60°C	606.151 hrs @ 25°C; 394.265 hrs @ 45°C; 267.894 hrs @ 60°C
Certification	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs
Certification	Industrial	Industrial	Industrial

Bestellinformation	Artikel-Nr. PBAS5367 Single Board Computer 357X-E3950, Intel Atom E3950, HDMI, VGA, LVDS, 2x SATA, 4x USB 3.0 Artikel-Nr. PBAS5368 Single Board Computer 357X-E3930, Intel Atom E3930, HDMI, VGA, LVDS, 2x SATA, 4x USB 3.0	Artikel-Nr. PBAS5400 Single Board Computer 551, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C Artikel-Nr. PBAS5400-1 Single Board Computer 551, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C Artikel-Nr. PBAS5401 Single Board Computer 551, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C Artikel-Nr. PBAS5401-1 Single Board Computer 551, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C Artikel-Nr. PBAS5402 Single Board Computer 551, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C Artikel-Nr. PBAS5402-1 Single Board Computer 551, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C Artikel-Nr. PBAS5403 Single Board Computer 551, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, 0°C to 60°C Artikel-Nr. PBAS5403-1 Single Board Computer 551, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 1x M.2, 12V, -20°C to 70°C	Artikel-Nr. PBAS5404 Single Board Computer 553, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C Artikel-Nr. PBAS5404-1 Single Board Computer 553, Intel Core i7-7600U, 2.8GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C Artikel-Nr. PBAS5405 Single Board Computer 553, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C Artikel-Nr. PBAS5405-1 Single Board Computer 553, Intel Core i5-7300U, 2.6GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C Artikel-Nr. PBAS5406 Single Board Computer 553, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C Artikel-Nr. PBAS5406-1 Single Board Computer 553, Intel Core i3-7100U, 2.4GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C Artikel-Nr. PBAS5407 Single Board Computer 553, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, 0°C to 60°C Artikel-Nr. PBAS5407-1 Single Board Computer 553, Intel Celeron 3965U, 2.2GHz, VGA, LVDS, DP++, 1x mPCIe, 2x M.2, 9-36V, -20°C to 70°C
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