

Board Model		CPC508	CPC510	CPC512	CPC514	CPC516	CPC518
Compliance with standards	PICMG 2.0, PICMG 2.1	V	v	Via adapters KIC502+KIC504	Via adapters KIC502+KIC504	Via adapters KIC502+KIC504	Via adapters KIC502+KIC504
	PICMG 2.30	V	v	No	No	No	No
	PICMG cPCI-S.0	No	v	v	v	v	v
Size, including mezzanines		4HP, 8HP, 12HP	4HP, 5HP*, 8HP, 12HP	4HP, 5HP*, 8HP	4HP, 5HP*, 8HP	4HP, 5HP*	4HP, 5HP*, 8HP
CPU		Intel Atom N450, 1,66 GHz Intel Atom D510, 1,66 GHz	Intel i7-3517UE 1,7 GHz Intel i7-3555LE 2,5 GHz Intel i7-3612QE 2,1 GHz	Intel i7-3517UE 1,7 GHz Intel i7-3612LE 2,1 GHz Intel i7-3612QE 2,1 GHz	Elbrus-4C(1891BM8Я),0,8 GHz	Baikal-T1, 1.2 GHz	Intel Xeon D-1559 1.5 GHz Intel Xeon D-1539 1.6 GHz Intel Pentium D-1519 1.5 GHz
RAM		1 GB DDR2 SDRAM 667 MHz, soldered	4 or 8 GB DDR3L SDRAM with ECC 1600 MHz, soldered	4 or 8 GB DDR3L SDRAM with ECC 1600 MHz, soldered	8 GB DDR3 SDRAM 1600 with ECC , soldered	4 GB DDR3 SDRAM 1600 with ECC , soldered	16 or 32 GB DDR4-2133 with ECC
Graphics Subsystem	Type	Integrated into CPU	Integrated into CPU	Integrated into CPU	Display Controller SM750	Display Controller SM750	Display Controller SM750
	Interfaces	SVGA, LVDS (18 bit)	2xDisplay Port on the front panel 1xDisplay Port и LVDS (18/24 bit) on MIC590 mezzanine board)	2xDisplay Port on the front panel	1xDisplay Port	1xDisplay Port	1xDisplay Port
	Number of independent displays	2	3	2	1	1	1
Communications interfaces on the front panel	Gigabit Ethernet	2xGigabit Ethernet	2xGigabit Ethernet	2xGigabit Ethernet	2xGigabit Ethernet	2xGigabit Ethernet 1x10Gigabit Ethernet	2x10Gigabit Ethernet (SPF+)
	USB	2xUSB 2.0	2xUSB 2.0	2xUSB 2.0	2xUSB 2.0	1xUSB 2.0	2xUSB 3.0
Storage subsystem interfaces	On the board	1xCompact Flash (Type 2), SATA NAND 4 GB, soldered	1xMicroSD	1xMicroSD	16 GB SSD, soldered	8 GB SSD, 1xminiPCIe	16 GB SLC NAND, 1xSATA II
	On mezzanine boards and rear I/O modules	2xSATA II on MIC584	2xSATA II on MIC584	2xSATA III on MIC584	2xSATA II on MIC584	No	No

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Interconnects of inter-module communication by backplane	PCI	32 bit/33 MHz	32-bit, 33 or 66 MHz	No	No	No	No
	PCI Express	Four channels ×1 PCI Express	Two channels ×8 PCI Express (Fat Pipe) Four channels ×4 PCI Express	Two channels×8 PCI Express Gen 3.0 (Fat Pipe) Two channels ×4 PCI Express Gen 3.0 Four channels ×1 PCI Express Gen 2.0	Two channels×4 PCI Express Gen 3.0 Six channels×2 PCI Express Gen 3.0	One channel×4 PCI Express Gen 3.0 Five channels×1 PCI Express Gen 3.0	One channel ×8 PCI Express Gen 3.0 Four channels ×4 PCI Express Gen 3.0 Two channels ×1 PCI Express Gen 2.0
	Gigabit Ethernet	2×Gigabit Ethernet, software-based switching between the front panel and backplane	No	1×Gigabit Ethernet with AMT support	1×Gigabit Ethernet	2×Gigabit Ethernet	1×Gigabit Ethernet
	SATA	2 × SATA I	2 × SATA III 3 × SATA II	2×SATA III 3×SATA II	3×SATA II	1×SATA II	5×SATA III
	USB	4×USB 2.0	8 × USB 2.0 4 × USB 3.0	10×USB 2.0 4×USB 3.0	7×USB 2.0	4×USB 2.0	2x USB 2.0 2x USB 3.0
Support of OS		FreeDOS; Windows XPe; Linux 2.6; QNX 6.5	Windows 7; Linux 2.6	Windows 7 Embedded; Linux 2.6	Elbrus, QNX 6.x	Linux (Debian 8.x).	Microsoft Windows Embedded Standard 7 Microsoft Windows Embedded Standard 10 Linux 3.19, QNX 6.x
Energy target*		from 14 to 15,5 W depending on the version	From 30 to 65 W depending on the version	From 30 to 65 W depending on the version	up to 54 W	<b>up to 30 W</b>	up to 84 W
Vibration/Single shock resistance		5g/100g	5g/100g	5g/100g	2g/50g	<b>5g/50g</b>	5g/50g
MTBF (GOST 15150-69)		More than 140000 hours	More than 100000 hours	more than 100 000 hours	more than 80 000 hours	<b>more than 100 000 hours</b>	more than 100 000 hours
Operating temperature range**		-40 ... +85 °C / -50 ... +85 °C	0 ... +70 °C / -40 ... +85 °C	0...+55 °C /0...+70 °C /-40...+85°C	-40...+85°C	<b>-40...+85°C</b>	0...+70°C / -40...+85°C
Mezzanine boards	Model	MIC584	MIC584	MIC584	MIC584	<b>No</b>	No
	Interfaces on the front panel	Audio IN/OUT/MIC, 2×USB 2.0, 1×RS-232, PS/2	Audio IN/OUT/MIC, 2×USB 2.0, 1×RS-232, PS/2	Audio IN/OUT/MIC, 2×USB 2.0, 1×RS-232, PS/2	Audio IN/OUT/MIC, 2×USB 2.0, 1×RS-232, PS/2	<b>No</b>	No

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<b>Interfaces on the board</b>	2×SATA II, 5×RS-232/485, LPT J2 connector: microphone input, line input/output; 2×CAN2.0; 2×RS- 485/422; 2×RS- 232; LVDS	2×SATA II, 5×RS- 232/485, LPT	2×SATA II, 5×RS- 232/485, LPT	2×SATA II, 5×RS- 232/485,LPT	No	No

**\*Version with conduction heat removal**

**\*\*Operating temperature range depends on the device version**

**Estimated power consumption - a power consumption for calculation of the system of heat removal from the module. .**

**Actual power consumption depends on the load and the runtime application and could be less than the specified value.**