

		Z500PT Linux	phyCARD-XL Linux	i.MX35 Linux	phyCARD-M Linux	i.MX31 Linux	i.MX27 Linux	phyCARD-S Linux	MPC5121e Linux	MPC5200 Linux	AM3517 Linux	phyCARD-L Linux	OMAP4 Linux	Z500PT Win	phyCARD-XL WinCE	i.MX35 WinCE	phyCARD-M WinCE	i.MX31 WinCE	i.MX27 WinCE	phyCARD-S WinCE	AM3517 WinCE	phyCARD-L WinCE	OMAP4 WinCE	Keil STM32F103	Keil XC167	Keil ARM 7	MPC5554	MCF5485	TC1796/1797		
Software	Operating System	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6.x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Linux 2.6x	Windows embedded standard	WinXP Embedded	WinCE6.0	WinCE6.0	WinCE 6.0	WinCE 6.0	WinCE 6.0	WinCE 6.0	WinCE 6.0	WinXP Embedded	MDK-ARM + RTX Kernel	Keil AR-166	MDK-ARM + RTX Kernel	Euros/INTEGRITY/div.	EUROS/MQX / Sciopta/div.	PXROS/Euros/div.		
	Real-Time	yes	RTpreempt	yes	RTpreempt	-	RTpreempt	RTpreempt	RTpreempt	RTpreempt	-	RTpreempt	on request	-	yes	yes	yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes		
	BSP / Image	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes	yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes	-	yes	-	on request	on request	yes / -	
	Bootloader	-	Bios	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	Uboot	-	Bios	Eboot	Eboot	Eboot	Eboot	Eboot	Eboot	Eboot	Eboot	-	-	-	yes	yes	yes	
	Toolchain	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Eclipse	Visual Studio 2005	Platform Builder	Visual Studio 2005	Platform Builder	Platform Builder	Platform Builder	Platform Builder	Platform Builder	Platform Builder	Platform Builder	Keil µVision	Keil µVision	Keil µVision	WinIDEA	CodeWarrior	Hightech/Tas-king/Euros	
	Compiler	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	GNU	Visual Studio 2005	Visual Studio	Visual Studio 2005	Visual Studio	Visual Studio	Visual Studio	Visual Studio	Visual Studio	Visual Studio	Visual Studio	Keil C Compiler	Keil C Compiler	Real Viewer	GNU	CodeWarrior	GNU/Tasking	
Debug-Interface	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	JTAG	OCDS	JTAG	BDM, Nexus	BDM	JTAG/OCDS2	
CPU	Processor	Z510P	Z510P	i.MX35x	i.MX35x	i.MX31	i.MX27	i.MX27	MPC5121e	MPC5200	AM3517	OMAP3517	OMAP44xx	Z510P	Z510P	i.MX35x	i.MX35	i.MX31	i.MX27	i.MX27	AM3517	OMAP3517	OMAP44xx	STM32F103	XC167	LPC2294	MPC5554	MCF5485	TC1796/TC1797		
	Family	x86	x86	ARM-1136	ARM-1136	ARM-1136	ARM-926	ARM-926	PowerPC	PowerPC	Cortex A8	Cortex A8	Cortex A9 Dual Core	x86	x86	ARM-1136	ARM-1136	ARM-1136	ARM-926	ARM-926	Cortex A8	Cortex A8	Cortex A9 Dual Core	Cortex-M3	XC16x	LPC22xx	PowerPC	ColdFire	TiCore		
	Manufacturer	Intel	Intel	Freescale	Freescale	Freescale	Freescale	Freescale	Freescale	Freescale	Freescale	Texas Instruments	Texas Instruments	Texas Instruments	Intel	Intel	Freescale	Freescale	Freescale	Freescale	Freescale	Texas Instruments	Texas Instruments	Texas Instruments	ST Microelectronics	Infinion	NXP	Freescale	Freescale	Infinion	
	Frequency	1,1GHz	1,1GHz	532MHz	532MHz	532MHz	400MHz	400MHz	400MHz	400MHz	400MHz	600MHz	720MHz	2 x 1GHz	1,1GHz	1,1GHz	532MHz	532MHz	532MHz	400MHz	400MHz	600MHz	720MHz	2 x 1GHz	72MHz	40MHz	60MHz	132MHz	200MHz	150/180MHz	
	MMU	yes	-	yes	-	yes	yes	-	yes	yes	yes	yes	-	yes	yes	-	yes	-	yes	yes	-	yes	-	yes	-	-	-	yes	yes	MPU	
Memory	RAM	256MB DDR2	512MB DDR	128MB DDR2	128MB DDR	128MB DDR	128MB DDR	64MB	256MB DDR2	64MB DDR	256MB DDR2	256MB DDR	512MB LPDDR2	256MB DDR2	512MB	128MB DDR2	128MB	128MB DDR	128MB DDR	64MB	256MB DDR2	256MB	512MB LPDDR2	-	-	-	2MB Burst	128MB DDR	-		
	SRAM	-	-	-	-	512kB	256kB	-	2MB	-	-	-	-	-	-	-	-	512kB	256kB	-	-	-	-	ext. max.	512kB	1MB	-	-	8MB		
	NOR Flash	-	-	32MB	-	32MB	32MB	-	32MB	16MB	-	-	-	-	-	32MB	-	32MB	32MB	-	-	-	-	512kB	1MB	NOR 2MB	2MB	32MB	32MB		
	NAND Flash	2GB (SSD)	2GB	1GB	128MB	64MB	64MB	64MB	1GB	-	256MB	256MB	512MB	2GB (SSD)	2GB	1GB	128MB	64MB	64MB	64MB	256MB	256MB	512MB	-	-	-	-	-	-		
	EEPROM	4kB	4kB	4kB	4kB	4kB	4kB	4kB	4kB	4 kB	32kB	4kB	4kB	4kB	4kB	4kB	4kB	4kB	4kB	4kB	4kB	32kB	4kB	4kB	4kB	4kB	4kB	1kB	4kB	4kB	32kB
Interface	Ethernet	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	yes	yes	yes	yes	2 x	yes	
	CAN	-	-	yes	-	yes	yes	-	4 x	2 x	1 x	-	-	-	-	yes	-	yes	yes	-	yes	-	-	1 x	2 x	2 x	2 x	2 x	2 x	4 x (1xTTCAN)	
	USB	OTG, 4 x Host	OTG, 3 x Host	OTG, Host	OTG, Host	OTG HS, Host HS	OTG HS, Host HS	OTG, Host	OTG HS	Host	OTG, Host	OTG, 3 x Host	OTG HS, Host HS	OTG, 4 x Host	OTG, 3 x Host	OTG, Host	OTG HS, Host HS	OTG HS, Host HS	OTG HS, Host HS	OTG HS, Host HS	OTG, Host	OTG, 3 x Host	OTG HS, Host HS	Device	-	-	-	-	Host, Device	1 x	
	RS232	1 x	1x	2 x	1 x	2 x	2 x	1 x	2 x	2 x	2 x	1 x	2 x	1 x	1 x	2 x	1 x	2 x	2 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	2 x	2 x	2 x	2 x	
	PCI	-	-	-	-	-	-	-	yes	yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	yes	-	
	PCIe / Mini PCIe	yes / yes	-	-	-	-	-	-	-	-	-	-	-	yes / yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	ATA / IDE	-	-	-	-	-	-	-	yes	yes	-	-	-	-	-	-	-	-	yes	-	-	-	-	-	-	-	-	-	-	-	
	SATA	yes	-	-	-	-	-	-	yes	-	-	-	-	yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Sound	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-	-	-	-	
	SPI / I2C	- / -	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / -	yes / yes	yes / yes	- / -	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes	yes / -	yes / yes	yes / yes	-	yes / yes	yes / -	yes / -	yes / yes	yes / yes	yes / yes
	CPLD / FPGA	yes	-	-	-	-	-	-	CPLD	-	-	-	-	yes	-	-	-	-	-	-	-	-	-	-	-	-	CPLD	FPGA	CPLD	-	
	RTC	yes (internal)	-	yes	-	yes	yes	-	yes	yes	-	-	yes	yes (internal)	-	yes	-	yes	yes	yes	-	-	-	yes	yes (internal)	yes	yes	yes	yes	yes	yes
	CF / SD / MMC	- / yes / -	- / yes / yes	- / yes / yes	- / - / yes	yes / yes / yes	yes / yes / yes	yes / yes / yes	- / - / yes	yes / yes / yes	yes / - / -	- / yes / yes	- / yes / yes	- / yes / yes	- / yes / -	- / yes / yes	- / yes / yes	yes / yes / yes	yes / yes / yes	yes / yes / yes	yes / yes / yes	- / yes / yes	- / yes / yes	- / yes / yes	- / - / -	- / - / -	- / - / -	- / - / -	yes / yes / yes	- / yes / yes	- / yes / yes
	Expansion Bus	yes	-	yes	-	yes	yes	-	yes	yes	yes	yes	-	yes	yes	-	yes	-	yes	yes	-	yes	-	yes	-	yes	yes	yes	yes	yes	yes
	Each Kit includes	Module	PCM-041-30COESM	PCA-A-XL1-1200	PCM-043-000RE	PCA-A-M1-1101007	PCM-037-0010REU	PCM-038-0010REU	PCA-A-S1-2101000	PCM-046-1101REI	PCM-030-02REI	PCM-048	PCA-A-L1-12010003	PCM-049	PCM-041-00CO\$ROESM	PCA-A-XL1-1200	PCM-043-000RE	PCA-A-M1-1101007	PCM-037-0000REU	PCM-038-0010REU	PCA-A-S1-2101000	PCM-048	PCA-A-L1-12010003	PCM-049	NM-103	PCM-021-0020E	PCM-023-000111C1	PCM-028-1111E	PCM-024-322111	KSP-0150-1	
Carrier Board		yes	PBA-A1-01	yes	yes	yes	yes	yes	yes	yes	PCM-961	PBA-A1-01	PCM-959	yes	PBA-A1-01	yes	PBA-A1-01	yes	yes	PBA-A1-01	PCM-961	PBA-A-01	PCM-959	PCM-964	yes	yes	yes	yes	yes	KSP-0150-B0	
Mapperboard		-	-	yes	-	yes	yes	-	-	-	-	-	-	-	-	yes	-	yes	yes	-	-	-	-	-	-	-	-	-	-	-	
Bare PCB Expansion Board		-	-	-	yes	-	-	yes	yes	yes	yes	yes	yes	-	yes	-	yes	-	-	yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	
Display		optional	LVDS 5" VGA	3,5"	LVDS 5"	3,5"	3,5"	3,5"	LVDS 5"	3,5"	-	LVDS 5" VGA	LVDS 5" VGA	opt. (LVDS 7" SVGA)	optional	LVDS 5" VGA	3,5"	LVDS 5" VGA	3,5"	3,5"	LVDS 5" VGA	LVDS 5" VGA	LVDS 5" VGA	opt. (LVDS 7" SVGA)	-	-	-	-	-	opt.	
Touch		-	yes	yes	yes	yes	yes	yes	yes	yes	-	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-	-	-	-	
Camera		-	yes	opt.	yes	opt.	opt.	yes	-	-	opt.	yes	opt.	-	yes	opt.	yes	opt.	opt.	opt.	yes	opt.	yes	opt.	-	-	-	-	-	-	
Debugger		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ULINK	ULINK	ULINK	iSystem iOne	USB-BDM-Wiggler	onBoard	
Power supply and Cables		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Tool-CD		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QuickStart-Instruction		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Printed schematics		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Start-Up Guarantee	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
Order-information	Part #	KPCM-041-Linux	KPCA-A-XL1-LINUX	KPCM-043-Linux	KPCA-A-M1-Linux	KPCM-037-Linux	KPCM-038-Linux	KPCA-A-S1-LINUX01	KPCM-046-Linux	KPCM-030-Linux	KPCM-048-Linux	KPCA-A-L1-LINUX	KPCM-049-Linux	KPCM-041-WinEM	KPCA-A-XL1-WINCE	KPCM-043-Win	KPCA-A-M1-WINCE	KPCM-037-Win	KPCM-038-Win	KPCA-A-S1-WINCE	KPCM-048-WINCE	KPCA-A-L1-WINCE	KPCM-049-WINCE	KNM-103-OR	KPCM-021-Keil	KPCM-023-Keil	KPCM-028-IS	KPCM-024-322111	KSP-0150-Kit		
	Price in EUR (plus VAT)	595,-	520,-	545,-	420,-	595,-	545,-	380,-	595,-	380,-	580,-	460,-	395,-	675,-	590,-	545,-	435,-	545,-	545,-	395,-	580,-	475,-	410,-	340,-	320,-	290,-	590,-	695,-	495,-		
	Web-ID	E1595	E1650	E1593	E1643	E1529	E1571	E1604	E1598	E1403	E1678	E1648	E1680	E1596	E1651	E1594	E1644	E1529	E1571	E1605	E1679	E1649	E1681	E1592	E1412	E1411	E1409	E1410	E1590		