

		PC/104																		
General	Product Name	Bobcat		Lynx		Cheetah			Cougar	Puma		Manx		NEW Z5xx ATOM Ocelot		COMING SOON Leopard		COMING SOON Wildcat		
	Part Number	EPM-CPU-3p	EPM-CPU-3s	VL-EPM-4g	VL-EPM-4h	VL-EPM-32p	VL-EPM-32t	VL-EPM-32v	VL-EPM-14h	VL-EPM-5g	VL-EPM-5h	VL-EPM-15g	VL-EPM-15h	VL-EPMs-21g	VL-EPMs-21h	VL-EPM-35S	VL-EPM-35E	VL-EPMp-34S	VL-EPMp-34E	
	Status	Not Recommended for New Designs		Not Recommended for New Designs		-			-	Not Recommended for New Designs		-		New		Coming Soon ...		Coming Soon ...		
	Temperature Rating	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	
	Processor	Élan SC520		Élan SC520		Pentium M 745			ULV Celeron M 373	Geode LX 800	Geode GX 500		Geode LX 800		Atom Z530P	Atom Z520PT	Core 2 Duo SP9300		Core 2 Duo SP9300	
	Chipset	Integrated		Integrated		855GME			Geode CS5536	Geode CS5536		Geode CS5536		US15WP	US15WPT	GS45		GS45		
	Processor Speed	133 MHz	100 MHz	133 MHz	100 MHz	0.6 to 1.8 GHz [a]		1.0 GHz	500 MHz	366 MHz	333 MHz	500 MHz		1.6 GHz	1.33 GHz	2.27 GHz	TBD	2.27 GHz	TBD	
	Processor Bus	Internal		Internal		400 MHz			Internal	Internal		Internal		533 MHz		1.07 GHz	TBD	1.07 GHz	TBD	
	Operating Power	4.8W	4.3W	5W	4W	8-25W [a]		12W	8W	4.5W	5W - ACPI		5W - ACPI		7.5W - ACPI	6.5W - ACPI	TBD		TBD	
	CPU Cooling	None		Fan	Heatsink	Fan		Heatsink	Heatsink	Heatsink		Heatsink		Heatsink		Fan		Fan		
Expansion	PC/104-Plus		PC/104-Plus		PC/104-Plus			PC/104-Plus	PC/104-Plus		PC/104-Plus		SUMIT, PC/104, SPX		PC/104-Plus, SPX		PCI-104, SPX			
RoHS-compliant	-		RoHS		RoHS			RoHS	RoHS		RoHS		RoHS		RoHS		RoHS			
RAM	Capacity	64 MB		64 MB		Up to 1 GB			256 MB	256 MB		256 MB		Up to 2 GB		Up to 4 GB		Up to 4 GB		
	Type	Soldered-on		Soldered-on		DDR			Soldered-on	Soldered-on		Soldered-on		DDR2		DDR3		DDR3		
SSD	Type [c]	Disk on Chip		CompactFlash		CompactFlash			CompactFlash	CompactFlash		CompactFlash		IDE DOM		MiniBlade (USB), eUSB		MiniBlade (USB)		
Video	Core	[b]		[b]		Intel Extreme Graphics 2			MMX & 3DNow!	MMX & 3DNow!		MMX & 3DNow!		GMA 500		GMA 4500 MHD		GMA 4500 MHD		
	VRAM	-		-		Up to 64 MB shared DRAM			Up to 64 MB shared DRAM	Up to 16 MB shared DRAM		Up to 64 MB shared DRAM		Up to 256 MB shared DRAM		Up to 512 MB shared DRAM		Up to 512 MB shared DRAM		
	Analog/Desktop	-		-		Y			Y	Y		Y		Optional		Y		Y		
	LVDS/Flat Panel	-		-		Y			Y	Y		Y		Y		Y		Y		
LAN	Ethernet	10/100		10/100		10/100			Dual 10/100	10/100		10/100		GbE		Dual GbE		GbE		
COM	RS-232 Ports	2		2		1			2	1		1		0		1		-		
	RS-232/422/485 Ports	2 [f]		2 [f]		1			1 [f]	2 [f]		2 [f]		4		4		1		
I/O	LPT Port	-		Y		Y			-	Y		Y		-		Y		-		
	Analog Inputs (12-bit)	-		-		-			-	-		-		-		-		-		
	Digital I/O Lines	-		-		-			-	-		-		-		-		-		
	USB	-		-		2			4	4		4		3		6		4		
	SATA	-		-		-			-	-		-		-		2		2		
	IDE	PIO		PIO		ATA100 [e]			ATA66	ATA66		ATA66		ATA100 [e]		-		-		
Audio	-		-		AC'97: analog in/out			-	AC'97: analog in/out		AC'97: analog in/out		HD Audio: analog in/out		HD Audio: analog in/out + digital [h]		HD Audio: digital [h]			
Counter/Timers	Watchdog Timer	Y		Y		Y			Y	Y		Y		Y		Y		Y		
	Additional Counter/Timers	2		2		-			-	-		-		-		-		-		
Price/Performance	Core 2 Duo															\$\$\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$	
	Pentium M/Atom					\$\$\$\$	\$\$\$\$							\$\$\$	\$\$\$					
	VIA Eden/Celeron M							\$\$\$\$												
	AMD Geode								\$\$	\$\$	\$\$	\$\$	\$\$							
	x86	\$	\$	\$	\$															

Notes
 [a] Processor speed adjustable through CMOS setup option to fine tune performance and power dissipation. [b] No on-board video. Use video expansion module to provide video output during development. [c] Storage capacity limited only by currently available media sizes. [d] Optional.
 [e] Limited to ATA66 using standard 44-pin 2 mm cable. [f] 422/485 only. [g] USB 1.1. [h] Digital audio via external codec.

For more information, visit www.VersaLogic.com, or contact a sales representative at (541) 485-8575. Specifications are subject to change without notification. Not all products are included in this chart.
 Revised 09/18/09

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1-800-824-3163
 Questions?
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 Technical Assistance





EBX + EPIC SBC Comparison Chart

VersaLogic Embedded Computer Products

		EBX						EPIC					
General	Product Name	Cobra				Python		Sidewinder	Gecko		Komodo		
	Part Number	VL-EBX-12p	VL-EBX-12r	VL-EBX-12t	VL-EBX-12v	VL-EBX-11g	VL-EBX-11h	VL-EBX-22g	VL-EPIC-2b	VL-EPIC-2e	VL-EPICs-36S	VL-EPICs-36E	
	Status	-						-	-	Not Recommended for New Designs		Coming Soon . . .	
	Temperature Rating	0° to +60°C		-40° to +85°C		0° to +60°C		0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C	0° to +60°C	-40° to +85°C
	Processor	Pentium M 745			ULV Celeron M 373			Geode LX 800	VIA Eden	Geode GX 500		Core 2 Duo P8400	
	Chipset	855GME						Geode CS5536	VIA CX700M	Geode CS5535		GM45 Express	
	Processor Speed	0.6 to 1.8 GHz [a]		1.0 GHz		1.0 GHz		500 MHz	1.2 GHz	366 MHz	333 MHz	2.27 GHz	1.6 GHz
	Processor Bus	400 MHz						Internal	400 MHz	Internal		1.07 GHz	800 MHz
	Operating Power	12-25W [a]		12W		10W		5W	10W	5W		10W	TBD
	CPU Cooling	Fan			Heatsink			None	Heatsink	Heatsink	None	Heatsink	Fan
	Expansion	PC/104-Plus				PC/104-Plus, SPX		PC/104-Plus, SPX	PC/104-Plus		SUMIT, PC/104, SPX		
	RoHS-compliant	RoHS						RoHS	RoHS	-	RoHS		
RAM	Capacity	Up to 2 GB				Up to 1 GB		Up to 1 GB	Up to 512 MB		Up to 4 GB		
	Type	DDR				DDR		DDR2	DDR		DDR3		
SSD	Type [c]	CompactFlash				CompactFlash		CompactFlash, eUSB	CompactFlash		MiniBlade (USB/SATA)		
Video	Core	Intel Extreme Graphics 2				MMX & 3DNow!		VIA UniChrome Pro	MMX & 3DNow!		GMA 4500 MHD		
	VRAM	Up to 64 MB shared DRAM				Up to 64 MB shared DRAM		Up to 128 MB shared DRAM	Up to 16 MB shared DRAM		Up to 512 MB shared DRAM		
	Analog/Desktop	Y				Y		Y	Y		Y		
	LVDS/Flat Panel	Y				Y		Y	Y		Y		
LAN	Ethernet	Dual 10/100	Dual GbE	Dual 10/100		Dual 10/100		Dual 10/100	10/100		GbE		
COM	RS-232 Ports	2				2		2	2		2		
	RS-232/422/485 Ports	2				2		2	2 [f]		2		
I/O	LPT Port	Y				Y		Y	Y		-		
	Analog Inputs (12-bit)	8 [d]				8		8	8		-		
	Digital I/O Lines	32				32		32	16		-		
	USB	4				4		6	4 [g]		4		
	SATA	-				-		2	-		2		
	IDE	Dual ATA100				ATA66		ATA100 [e]	ATA66		-		
Audio	AC'97: analog in/out				AC'97: analog in/out		AC'97: analog in/out	AC'97: analog in/out		HD Audio: analog in/out			
Counter/Timers	Watchdog Timer	Y				Y		Y	Y		-		
	Additional Counter/Timers	3				3		2	-		-		
Price/Performance	Core 2 Duo										\$\$\$\$	\$\$\$\$	
	Pentium M/Atom	\$\$\$\$\$	\$\$\$\$\$	\$\$\$\$\$									
	VIA Eden/Celeron M				\$\$\$\$			\$\$\$\$					
	AMD Geode					\$\$	\$\$		\$\$	\$\$			
	x86												

Notes

[a] Processor speed adjustable through CMOS setup option to fine tune performance and power dissipation. [b] No on-board video. Use video expansion module to provide video output during development. [c] Storage capacity limited only by currently available media sizes. [d] Optional. [e] Limited to ATA66 using standard 44-pin 2 mm cable. [f] 422/485 only. [g] USB 1.1. [h] Digital audio via external codec.

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