

Miniboards Littleboards

Pentium III >> 1.13 GHz

AMD K6 - 550 Mhz

386SX - 40 Mhz



Type	EmCORE-i6315/VL		EmCORE-i6315/CL		PIM-582	PIM-582/C	PIM-381
Description	5¼" Pentium-III / Celeron Littleboard SVGA, Ethernet, Audio, DIO, PC/104-Plus		5¼" Pentium Littleboard SVGA, Ethernet, Audio, DIO		5¼" Pentium Littleboard SVGA, Ethernet, Audio, DIO		3½" 386SX Miniboard SVGA, Ethernet, DIO
Bus type	Littleboard with PCI and PC/104-Plus extension		Littleboard with PCI and PC/104		Littleboard with PCI and PC/104		PISA-bus (half-size PCI/ISA)
CPU type	Intel® Pentium® III, Intel® Celeron™ and VIA Cyrix®III (Joshua)		AMD® K6-III™ up to 550 MHz Cyrix® MII™, Intel® MMX™		AMD® K6-III™ up to 550 MHz Cyrix® MII™, Intel® MMX™		ALi M6117D = i386SX-40 CPU + M1217B chipset + Watchdog
CPU package	FC-PGA and PPGA		Socket 7		Socket 7		SMT (surfacemounted)
CPU max speed	1.13 GHz		550 MHz		550 MHz		40
FSB speed options	66 / 100 / 133 MHz		66 / 100 MHz		66 / 100 MHz		EIDE
Main Chipset	ProSavage PM133		SiS530 (incl.SiS-6326 AGP SVGA)		SiS530 (incl.SiS-6326 AGP SVGA)		M1217B (integrated in M6117D)
BIOS	AWARD		AWARD		AWARD		AMI
Level 2 Cache standard installed [KB]	on CPU		512 KB PB SRAM		512 KB PB SRAM		-
Level 2 Cache maximum [KB]	on CPU		512 KB PB SRAM		512 KB PB SRAM		-
Sytem Memory type, max. size [MB]	512 MB, PC-133 SDRAM		1 GB SDRAM		1 GB SDRAM		4 or 8 MB EDO DRAM
System memory sockets	1 socket 168-pin DIMM		2 sockets 168-pin DIMM		2 sockets 168-pin DIMM		two 2 MB SOJ sockets
ECC support	✓		-		-		-
Embedded memory [MB]	-		-		-		two 2 MB TSOP
HDD support	4x EIDE (one 40-pin and one 44-pin EIDE interface)		4x EIDE		4x EIDE		4x EIDE
Ultra DMA support [MHz]	up to 100 MHz		33 and 66 MHz		33 and 66 MHz		-
SCSI chipset	PC/104-Plus module option		-		-		-
SCSI type, speed	see above		-		-		-
Super I/O Chipset	included in VIA 686B Super South Bridge		ITE IT8661F1		ITE IT8661F1		ALi 5113
FDD support	2x FDD		2x FDD		2x FDD		2x FDD
Serial ports	3x RS-232, 1x RS-232/422/485		3x RS-232, 1x RS-232/422/485		3x RS-232, 1x RS-232/422/485		3x RS-232, 1x RS-232/485
Parallel ports	dual port SPP, EPP and ECP		SPP, EPP and ECP		SPP, EPP and ECP		SPP, EPP and ECP
USB ports	4 ports USB (12 Mb/s and 1.5 Mb/s)		dual port USB (12 and 1.5 Mb/s)		dual port USB (12 and 1.5 Mb/s)		-
IRdA (infrared) ports	single port IrDA, 5-pin TX/RX header		IrDA, 5-pin TX/RX header		IrDA, 5-pin TX/RX header		-
SVGA Chipset	S3 Savage4 3D integrated in VT8605	C&T 69000	SiS6326 integr. in SiS-530	C&T 69000	SiS6326 integr. in SiS-530	C&T 69000	TP 65081Q
Display memory [MB]	32 MB SDRAM (shared memory)	2 MB on die	8 MB SDRAM (shared)	2 MB on die	8 MB SDRAM (shared)	2 MB on die	1 MB (2x 512KB TSOP)
Display type supported	CRT	TFT, DSTN, EL, CRT	CRT	Flat Panel / CRT	CRT	Flat Panel / CRT	Flat Panel / CRT
Maximum resolution (at 256 colors)	1600 x 1400 at true color	1280 x 1024	1600 x 1400	1280 x 1024	1600 x 1400	1280 x 1024	640 x 480 (800 x 600 at 16)
Ethernet Chipset	Intel 82559		Realtek RTL8139A		Realtek RTL8139A		Realtek RTL8019AS
Ethernet speed	10/100 Mbps autoswitching		10/100 Mbps autoswitching		10/100 Mbps autoswitching		10 Mbps (NE2000 compt.)
DiskOnChip support	up to 288 MB (DIP socket)		up to 288 MB (DIP socket)		up to 288 MB (DIP socket)		up to 288 MB (DIP socket)
Onboard Bus extensions	PC/104-Plus , PCI-bus		PC/104 and PCI-bus		PC/104 and PCI-bus		PC/104 and ISA-bus
Realtime Clock	included in VIA 686B Super South Bridge		included in SiS 530		included in SiS 530		included in M6117D
Hardware Monitoring	included in VIA 686B Super South Bridge		included in ITE IT8661F1		included in ITE IT8661F1		-
External Pheripheral connectors on board	Keyboard Mouse	10-pin onboard header combines PS/2 (AT) Keyboard and Mouse	10-pin onboard header combines PS/2 (AT) Keyboard and Mouse	10-pin onboard header combines PS/2 (AT) Keyboard and Mouse	10-pin onboard header combines PS/2 (AT) Keyboard and Mouse	10-pin onboard header combines PS/2 (AT) Keyboard and Mouse	mini DIN combines PS/2 (AT) Keyboard and Mouse
	COM1 / COM2 COM3 / COM4	four 10-pin headers for RS-232 , 2-pin header for RS-422/485	four 10-pin headers for RS-232 , 2-pin header for RS-422/485	four 10-pin headers for RS-232 , 2-pin header for RS-422/485	four 10-pin headers for RS-232 , 2-pin header for RS-422/485	four 10-pin headers for RS-232 , 2-pin header for RS-485	four 10-pin headers for RS-232 , 2-pin header for RS-485
	VGA	10-pin header	50-pin box header	10-pin header	50-pin header	10-pin header	50-pin header
	LAN	10-pin header	50-pin box header	10-pin header	50-pin header	10-pin header	50-pin header
Typical voltage requirements [V]	+5V@ 4.5 A , ±12V	+5V@ 4.8 A , ±12V	+5V@ 3.2A , ±12V	+5V@ 3.2A , ±12V	+5V@ 3.2A , ±12V	+5V@ 3.2A , ±12V	single voltage +5 V @ 900 mA
Dimesions [mm]	146 mm x 203 mm		146 mm x 203 mm		146 mm x 203 mm		145 x 102 mm
Operating Temperature	0 to 55°C (32 to 131°F)		0 to 55°C (32 to 131°F)		0 to 55°C (32 to 131°F)		-20 ~ +60°C (-4 ~ 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)		-40 to 85°C (-40 to 185°F)		-40 to 85°C (-40 to 185°F)		-40 to 85°C (-40 to 185°F)
MTBF [hrs]							
Special Features	16-bit Digital I/O port, 16-bit 3D AC'97 Audio Controller		16-bit Digital I/O port, ESS Solo-1 3D Sound		16-bit Digital I/O port, ESS Solo-1 3D Sound		16-bit Digital I/O port