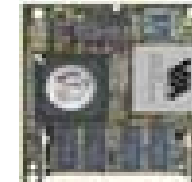
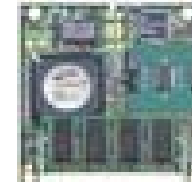
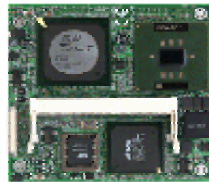
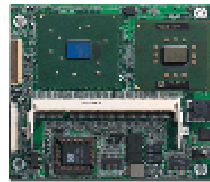


STX System on Modules (SoM) Embedded All-In-One CPU-Modules



The STX (=Smarter Technologie eXtension) module is a general purpose processing system-on-module (SoM) with complete computing ability in a very compact size. Although the STX Module is configured to various functions and power schemes, it always needs to be configured through its output interface and work with baseboards. These boards are capable of providing standard PC I/O signals converting and outputs, such as COM port TT-level signals to RS-232/422/485, AC-link to AC'97 Audio via AC'97 Codec, Ethernet signals from digital to analog and output for parallel port, IrDA, Floppy, USB, IDE, LCD, CRT, etc. The STX interface is an assembly of two pairs of 200-pin AMP connectors iv two plugs on STX Modul and two receptacles on STX Baseboard. The STX Interface uses 400 pins total. STX shared the same form factor as PC/104 which is 90x96mm (3,6" x 3,8") and applied the same 4 mounting holes.



Type	STX88810	STX88601	SoM-PM / CM	SoM-P3M / P3CM	SoM-C3 / ESP
Features					
CPU	Onboard LV Intel Pentium M & ULV Intel Celeron M	Onboard Intel µFC-BGA Celeron Pentium M	Onboard Intel Pentium M Intel Celeron M	Onboard LV Intel Pentium III ULV Intel Celeron	VIA C3 VIA Eden ESP
Bus System	PCI/ISA Bus	PCI/ISA Bus	PCI/ISA Bus	PCI/ISA Bus	PCI/ISA Bus
Mezzanine Extension Bus	STX	STX	STX	STX	STX
Chipsatz	Intel 852GM + ICH ⁴ + ITE8888G	VIA VT8606 (Twister-T) + 82C686B	Intel 855GME/852GM	VIA VT8606 Pro Savage PN133T "Twister" VIA VT82C686B "SuperSouth" South Bridge	VIA VT8606 Pro Savage PN133T "Twister" VIA VT82C686B "SuperSouth" South Bridge
Clock speed	Pentium M 1.4 GHz Celeron M 1.0GHz	Celeron 400/650 MHz Pentium III 933 MHz	Celeron M ~ 1.3 GHz Pentium M 1.4 GHz	Celeron 400 / 650 MHz Pentium III 800/933 MHz	
Power Management					
Frontside Bus	400MHz		400 MHz	100 / 133 MHz	100 / 133 MHz
2nd Level Cache	n/a	n/a	n/a	n/a	n/a
DRAM	200-pin SODDR RAM	144-pin SODIMM	200-pin SODIMM RAM	144-pin SODIMM	144-pin SODIMM
Solid State Disk SSD	n/a	n/a	USB 2.0 SD Card Socket	n/a	n/a
Keyboard / Mouse	2x PS/2	1x PS/2	1x PS/2	1x PS/2	1x PS/2
Floppydisk-Interface	1x	1x	1x	1x	1x
HD-Interface	2x PATA-100 IDE	2x PATA-100 IDE	1x	1x	1x
COM	n/a	n/a	2x RS-232	2x RS-232	2x RS-232
LPT	1x	1x	1x	1x	1x
IrDA	1x	1x	multiplexed with COM	multiplexed with COM	multiplexed with COM
USB	4x USB 2.0	4x USB 1.1a	2x USB 2.0	2x USB 1.1	2x USB 1.1
LAN	Realtek RTL8100BL onboard Fast Ethernet	Realtek RTL8139C, 10/100 Base-T	82562ET 10/100 Base-T	RTL8100BL 10/100 Base-T	RTL8100BL 10/100 Base-T
Digital I/O					
Video Controller	Integrated in Intel 852 GM HMCH	VIA Twister chip S3 Savage 4	Intel 852GM	VT8606 Pro Savage 4 AGP 4x	VT8606 Pro Savage 4 AGP 4x
Video Datapath	in North Bridge	in North Bridge	in North Bridge	in North Bridge	in North Bridge
Video Memory	max. up to 64MN sharing	8/16/32MB	up to 64MB Mempry sharing	8/16/32MB	8/16/32MB
LCD-Interface	LCD TTL 1.280 x 1.024 LCD LVDS 1.280 x 1.024	LCD 1.280 x 1.024	LCD 1.600 x 1.200	LVDS 1.600 x 1.200	LVDS 1.600 x 1.200
VGA/CRT Interface	VGA/CRT 1.600 x 1.200	CRT 1.920 x 1.440	CRT 2.048 x 1.536	CRT/TFT 1.600 x 1-200	CRT/TFT 1.600 x 1-200
DVI-Interface	n/a	n/a	n/a		
TV-Out Interface	n/a	NTSC/PAL, S-Video, Video Composite (optional)	Video-Out	yes	yes
Audio Interface	AC-link interface	AC-link interface	AC'97 Audio Codec	AC'97 Audio Codec	AC'97 Audio Codec
Watchdog	onboard	n/a	onboard	onboard	onboard
Power Supply	ATX Mode	ATX Mode	ATX Mode		
Power Consumption		Maximum: LV-PIII:3.8A@+5V ULV-ICP 650:3.0A@+5V ULV-ICP 400:2.5A@+5V	+3.3V +5.0 V	SoM-P3M: 1.64A@ +3.3V SoM-P3CM: 1,13A@ +5.0V	SoM-C3: 1.59A@ +3.3V, 1.14A@+5.0V SoM-ESP: 1.04A@+3.3V, 0.36A@+5.0V
Cooling Type	passive	active			
Operating Temp. Range	0°C ~ +60°C	0°C ~ +60°C	0°C ~ +70°C	0°C ~ +70°C	0°C ~ +70°C
Extended Temp. (Option)	n/a	-25°C ~ +70°C		n/a	n/a
Weight					
Size (mm)	96.0 x 90.0	96.0 x 90.0	96.0 x 90.0	96.0 x 90.0	96.0 x 90.0
Supported Operating Systems	Win CE / XP Linux	Win CE / XP Linux	Bootable Secure Digital Card		
Special Features	2x UARTs FC3 for DVO interface	2x UARTs		Power on / off button ATX Power supply	Power on / off button ATX Power supply
BIOS	Phoenix-Award 4Mbit	Phoenix-Award 4Mbit	EEPROM	EEPROM	EEPROM
Battery	Lithium 3V/196 mAH	Lithium 3V/196 mAH		Lithium 3V/196 mAH	
Options		TV-out Extended Temp.			
Ordering Number	PMSS8030/8031/8032	PMSS8023/8024/8025	PMSS6170/6171	PMSS6160	tb.d.