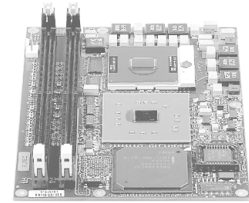
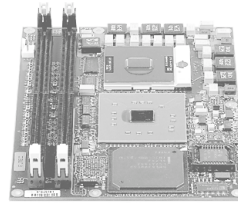
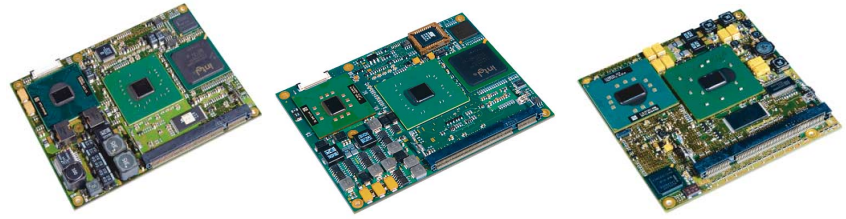


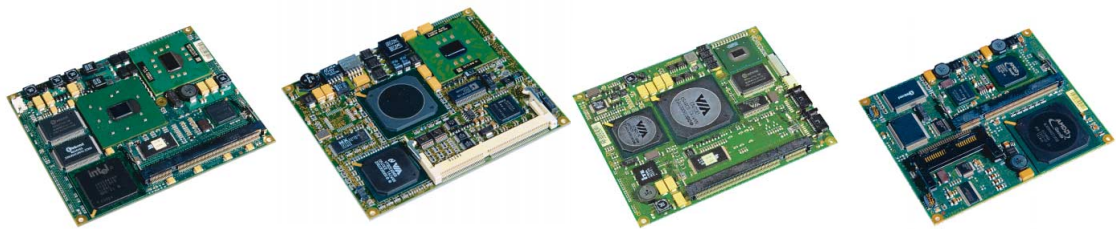
COM EXPRESS | ETX MODULE PRODUCT LINE



MODEL	EUROCOM 400 – MODCOM	MODCOM 450	MODCOM 460
BUS TYPE	COM Express		
CPU TYPE - MODULES TDP TYP.	Dual-Core Xeon LV - 60 Watt	Core 2 Duo - t.b.d. Watt	Dual-Core Xeon 5130 - t.b.d. Watt
CLOCK - L2 CACHE - FSB	2,00 GHz - 2 Mbyte - 667 MHz Dual-Core Xeon ULV - 44 Watt 1,66 GHz - 2 MByte - 667 MHz	2,16 GHz - 4 MByte - 667 MHz Core 2 Duo LV - t.b.d. Watt 1,50 GHz - 4 MByte - 667 MHz	2,00 GHz - 4 Mbyte - 1333 MHz Dual-Core Xeon 5140 - t.b.d. Watt 2,33 GHz - 4 Mbyte - 1333 MHz Dual-Core Xeon LV 5148 - t.b.d. Watt 2,33 GHz - 4 Mbyte - 1333 MHz
CHIPSET (NORTH BRIDGE)	Intel E7520	Intel E7520	Intel 5000P
SOUTH BRIDGE	i6300ESB	i6300ESB	i6321ESB
PCI EXPRESS LANES	3 * x8 (1 * x4 lanes), 1 * x1	3 * x8 (1 * x4 lanes), 1* x1	3 * x8 (1 * x4 lanes), 1 * x1
MEMORY TYPE	DDR2 PC2-3200 ECC Reg.	DDR2 PC2-3200 ECC Reg.	DDR2 PC2-5300 ECC FBDIMM
MEMORY SOCKET	2 * 240 pin DIMM	2 * 240 pin DIMM	t.b.d.
MAX. MEMORY	up to 4 GByte	up to 4 GByte	t.b.d.
BIOS	1024 KByte	1024 KByte	
GRAPHICS	1280 * 1024 /24-bit @ 60 Hz	1280 * 1024 /24-bit @ 60 Hz	1280 * 1024 /24-bit @ 60 Hz
LCD	LVDS (24 Bit, single channel)	LVDS (24 Bit, single channel)	LVDS (24 Bit, single channel)
LCD RESOLUTION	1024 * 768 /24-bit @ 60 Hz	1024 * 768 /24-bit @ 60 Hz	1024 * 768 /24-bit @ 60 Hz
TV-OUT			
LAN	10/100/1000 Mbps (att. to PCI-X)	10/100/1000 Mbps (att. to PCI-X)	10/100/1000 Mbps
AUDIO	AC'97-Codec	AC'97-Codec	AC'97-Codec
FLOPPY			
IDE	One channel Ultra DMA-133	One channel Ultra DMA-133	One channel Ultra DMA-100
SERIAL ATA	2 * S-ATA/150	2 * S-ATA/150	2 * S-ATA II/300
USB	Four USB 2.0	Four USB 2.0	Four USB 2.0
KEYBOARD			
MOUSE			
SERIAL			
PRINTER			
INFRARED			
RTC	yes (Battery-buffered)	yes (Battery-buffered)	yes (Battery-buffered)
PCI BUS			
ISA BUS			
SERIAL BUS	I2C Bus, SMBus	I2C Bus, SMBus	I2C Bus, SMBus
WATCHDOG TIMER	yes	yes	yes
SYSTEM MONITORING	2 * fan, 2 * temperature, 6 * voltage	2 * fan, 2 * temperature, 6 * voltage	t.b.d.
POWER MANAGEMENT	ACPI	ACPI	ACPI
COMPLIANT	COM Express Type 2	COM Express Type 2	COM Express Type 2
AMBIENT TEMPERATURE	0 - +55° C (2 m/s forced air cooling)	0 - +55° C (2 m/s forced air cooling)	0 - +55° C (2 m/s forced air cooling)
HUMIDITY (REL.)	20 - 80 % (operating)	20 - 80 % (operating)	20 - 80 % (operating)
DIMENSIONS	Extended 155 * 110 * 13 mm	Extended 155 * 110 * 13 mm	Extended 155 * 110 * 13 mm
OPERATING SYSTEM (BSP)	Windows	Windows	Windows
SPECIAL FEATURES	Dual Display supported	Dual Display supported, VT, EM64T	Dual Display supported, VT, EM64T
AVAILABLE	available	on request	Q1/07 on request



MODEL	MODCOM 420	MODCOM 310	MODCOM 300
BUS TYPE	COM Express	COM Express	COM Express
CPU TYPE - MODULES TDP TYP.	Core Duo L2400 - 30 Watt	Celeron M ULV 373 - 16 Watt	Pentium M 745 - 26 Watt
CLOCK - L2 CACHE - FSB	1,66 GHz - 2 MByte - 667 MHz	1,00 GHz - 512 KByte - 400 MHz Pentium M 760 - 37 Watt 2,00 GHz - 2 MByte - 533 MHz Pentium M LV 738 - 20 Watt 1,40 GHz - 2 MByte - 400 MHz	1,80 GHz - 2 MByte - 400 MHz Pentium M LV 738 - 15 Watt 1,40 GHz - 2 MByte - 400 MHz
CHIPSET (NORTH BRIDGE)	Intel 945GM	Intel 915GM	Intel 855GME
SOUTH BRIDGE	ICH7-M	ICH6-M	ICH4
PCI EXPRESS LANES	4 * x1	4 * x1	
MEMORY TYPE	DDR2 PC2-4300	DDR2 PC2-4300	DDR PC-2700
MEMORY SOCKET	1 * 200 pin SO-DIMM	1 * 200 pin SO-DIMM	1 * 200 pin SO-DIMM
MAX. MEMORY	up to 2 GByte	up to 1 GByte	up to 1 GByte
BIOS			
GRAPHICS	2048 * 1536	2048 * 1536	2048 * 1536
LCD	LVDS (18 / 24 / 36 / 48 Bit)	LVDS (18 Bit, dual channel)	LVDS (18 / 24 / 36 / 48 Bit)
LCD RESOLUTION	1600 * 1200	1600 * 1200 / 1920 * 1200	1600 * 1200
TV-OUT	Composite or S-Video		
LAN	10/100 or 10/100/1000 Mbps	10/100 or 10/100/1000 Mbps	10/100 Mbps
AUDIO	AC'97-Codec	AC'97-Codec	AC'97-Codec
FLOPPY		External USB Floppy supported	Shared with parallel port
IDE	One channel Ultra DMA-100	One channel Ultra DMA-100	Dual channel Ultra DMA-100
SERIAL ATA	2 * S-ATA II/300	2 * S-ATA/150	
USB	Eight USB 2.0	Eight USB 2.0	Quad USB 2.0
KEYBOARD			
MOUSE			
SERIAL			
PRINTER			
INFRARED			
RTC	yes (Battery-buffered)	yes (Battery-buffered)	yes (Battery-buffered)
PCI BUS			
ISA BUS			
SERIAL BUS		I2C Bus, SMBus	I2C Bus, SMBus
WATCHDOG TIMER	yes	yes	yes
SYSTEM MONITORING			
POWER MANAGEMENT	ACPI incl. Suspend-to-RAM	ACPI incl. Suspend-to-RAM	ACPI incl. Suspend-to-RAM
COMPLIANT	COM Express Type 2	COM Express Type 2	COM Express Type 2
AMBIENT TEMPERATURE	0 - +60 °C (operating)	0 - +60 °C (operating)	0 - +60 °C (operating)
HUMIDITY (REL.)	5 - 95 % (operating)	5 - 95 % (operating)	20 - 80 % (operating)
DIMENSIONS	Basic 125 * 95 * 12 mm	Basic 125 * 95 * 12 mm	Compact 95 * 95 * 12 mm
OPERATING SYSTEM	WindowsXP (embedded), Linux	WindowsXP (embedded), Linux	WindowsXP (embedded), Windows CE .NET, Linux
SPECIAL FEATURES	Dual Display supported TPM 1.2 security option	Dual Display supported TPM 1.2 security option	Dual Display supported supported



MODEL	MODETX 300	MODETX 200	MODETX 110	MODETX 100
BUS TYPE	ETX	ETX	ETX	ETX
CPU TYPE - MODULES TDP TYP.	Celeron M 320 - 28 Watt	Celeron ULV - 10 Watt	VIA Eden - 9 Watt	Geode LX 800@0.9W - 5,5 Watt
CLOCK - L2 CACHE - FSB	1,30 GHz - 512 KByte - 400 MHz Celeron M ULV - 10 Watt 600 MHz - 512 KByte - 400 MHz Celeron M ULV 373 - 9 Watt 1,00 GHz - 512 KByte - 400 MHz Pentium M - 28 Watt 1,60 GHz - 1 MByte - 400 MHz Pentium M 745 - 24 Watt 1,80 GHz - 2 MByte - 400 MHz Pentium M LV - 15 Watt 1,10 GHz - 1 MByte - 400 MHz Pentium M LV 738 - 13 Watt 1,40 GHz - 2 MByte - 400 MHz	400 MHz - 256 KByte - 100 MHz Celeron ULV - 12 Watt 650 MHz - 256 KByte - 100 MHz Pentium III LV - 13 Watt 800 MHz - 512 KByte - 133 MHz Pentium III LV - 14 Watt 933 MHz - 512 KByte - 133 MHz	400 MHz - 128 KByte - 400 MHz VIA Eden - 14 Watt 1,20 GHz - 128 KByte - 400 MHz VIA Eden ULV - 10 Watt 1,00 GHz - 128 KByte - 400MHz VIA C7 - 10 Watt 1,50 GHz - 128 KByte - 533 MHz	500 MHz - 128 Kbyte
CHIPSET (NORTH BRIDGE)	Intel 855GME	VIA ProSavage PN133T (VT8606)	VIA CN700	Int. in Geode LX 800@0.9W
SOUTH BRIDGE	ICH4	VIA VT82C686B	VIA VT8237R+	AMD Geode CS5536
PCI EXPRESS LANES				
MEMORY TYPE	DDR PC-2700	SDRAM PC-133	DDR PC-3200	DDR PC-3200
MEMORY SOCKET	1 * 200 pin SO-DIMM	1 * 144 pin SO-DIMM	1 * 200 pin SO-DIMM	1 * 200 pin SO-DIMM
MAX. MEMORY	up to 1 GByte	up to 512 Mbyte	up to 1 GByte	up to 512 Mbyte
BIOS		512 KByte (Phoenix BIOS)		512 KByte
GRAPHICS	2048 * 1536		1600 * 1200	1920 * 1440 24-bit @ 85Hz
LCD	LVDS (18 / 24 / 36 / 48 Bit)	LVDS (18 Bit, dual channel) o. TTL	LVDS (18 Bit, dual channel) o. TTL	LVDS (18/24 Bit) o. TTL (18/24 Bit)
LCD RESOLUTION	1600 * 1200		1600 * 1200	1600 * 1200 24-bit @ 60Hz
TV-OUT		Optional TV encoder (VT1621A)		Optional TV-Out
LAN	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps
AUDIO	AC'97-Codec	AC'97-Codec	AC'97-Codec	AC'97-Codec
FLOPPY	Shared with parallel port	Shared with parallel port	Shared with parallel port	Shared with parallel port
IDE	Dual channel Ultra DMA-100	Dual channel Ultra DMA-100	Dual channel Ultra DMA-133	One channel Ultra DMA-100
SERIAL ATA			2 * S-ATA/150	
USB	Quad USB 2.0	Quad USB 1.1	Quad USB 2.0	Quad USB 2.0
KEYBOARD	PS/2	MF II	PS/2	PS/2
MOUSE	PS/2	PS/2	PS/2	PS/2
SERIAL	COM1, COM2 - 2x TTL	COM1, COM2 - 2x TTL	COM1, COM2 - 2x TTL	COM1, COM2 - 2x TTL
PRINTER	Uni/EPP/ECP (FDC shared)	Uni/EPP/ECP (FDC shared)	Uni/EPP/ECP (FDC shared)	Uni/EPP/ECP (FDC shared)
INFRARED	IrDA 1.1 Tx/Rx interface	IrDA 1.1 Tx/Rx interface	IrDA 1.1 Tx/Rx interface	IrDA 1.0 Tx/Rx interface
RTC	yes (Battery-buffered)	integrated in VT82C686B	(Battery-buffered)	Integrated in CS5536
PCI BUS				PCI V2.2 32Bit /33MHz /3V3 only
ISA BUS				Standard ISA Interface
SERIAL BUS	I2C Bus, SMBus	I2C Bus, SMBus	I2C Bus, SMBus	I2C Bus, SMBus
WATCHDOG TIMER	yes	yes	yes	yes
SYSTEM MONITORING		1 * Fan, 2 * Temperature, 4 * Voltage		2 * Temperature, 4 * Voltage
POWER MANAGEMENT	ACPI incl. Suspend-to-RAM		ACPI	Suspend-to-RAM
COMPLIANT	Fully ETX	Fully ETX 2.8	Fully ETX 3.0	Fully ETX
AMBIENT TEMPERATURE	0 - +60 °C (operating)	0 - +60 °C (operating)	0 - +60 °C (operating)	0 - +60 °C (operating)
HUMIDITY (REL.)	5 - 85 % (operating)	5 - 95 % (operating)	5 - 95 % (operating)	10 - 90 % (operating)
DIMENSIONS	114 * 95 * 12 mm	114 * 95 * 12 mm	114 * 95 * 12 mm	114 * 95 * 12 mm
OPERATING SYSTEM	WindowsXP (embedded), Windows CE .NET, Linux	Windows CE .NET and Linux	WindowsXP (embedded) avail. Windows CE .NET, Linux requ.	WindowsXP (embedded), Windows CE .NET, Linux
SPECIAL FEATURES	Dual Display supported		Dual Display supported	CompactFlash Slot (Type I)



	MODBASE 100	MODBASE 110	MODBASE 200	MODBASE 210
SOCKET COMPATIBLE	ETX modules	ETX modules	COM Epxress Type 2	COM Epxress Type 2
FORM FACTOR	Standard ATX	PCISA board	Standard ATX	Extended
PCI EXPRESS SLOTS			4 * x8 (1 * x4 lanes)	1 * PEG, 6 * x1
PCI SLOTS	4 PCI V2.2 (3.3V/5V)		2 PCI V2.2 (3.3V/5V)	4 PCI V2.2 (3.3V/5V)
ISA SLOTS	3 Standard ISA			
S-ATA	2 channels	2 channels	4 channels	4 channels
EIDE	2 channels	2 channels	1 channels	1 channels
FLOPPY				
AUDIO	3,5 mm stereo jack	20 pin IDC connector	Header 10 pin	3,5 mm stereo jack
COMPACT FLASH	Adapter on IDE2	Adapter on IDE2		Adapter on IDE2
POST CODE	LED's and Displays		LED's and Displays	LED's and Displays
DATA I/O	20 pin IDC connector	26 pin IDC connector		
LCD DISPLAY	Flat foil connector 40 pin	Flat foil connector 40 pin	Header 40 pin	Flat foil connector
SUPER I/O				W 83627 HG or adaptor socked
SERIAL INTERFACES	4 * RS-232	4 * RS-232		2 * RS-232
USB INTERFACES	USB 0..3	USB 0..3	USB 0..3	USB 0..7
GRAPHICS INTERFACE	15 pin D-SUB	15 pin D-SUB	15 pin D-SUB	15 pin D-SUB
VIDEO/TV-OUT	10 pin IDC connector		Header 6 pin	
NETWORK	RJ 45	RJ 45	RJ 45	RJ 45
TEMPERATURE	0 - + 55 °C operating	0 - + 55 °C operating	0 - + 55 °C operating	0 - + 55 °C operating
HUMIDITY (REL.)	20 - 80 % operating	20 - 80 % operating	20 - 80 % operating	20 - 80 % operating

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