



The World of MOPS PC/104, 3.5" JReX and PISA® Single Board Computers 2004



► We create digital brains for a more intelligent world!

► The Kontron group is one of the world's largest suppliers of embedded computer technology to a diversified customer base in the communications, industrial automation, medical, transportation, point of information/sale, gaming, mobile, network security, defence and public safety markets. And with its corporate headquarter located in Munich, Kontron shows a strong presence in Europe. When it comes to embedded computing, you can focus on your core capabilities – and rely on Kontron as your global OEM partner for a successful long-term business relationship.

► Based on internationally accepted industry standards for hardware, software and connectivity, we can provide you with an extended portfolio of products and services. It ranges from off-the-shelf and custom-engineered embedded computer modules, boards and blades to modular computer systems up to application ready platforms, each designed to meet your current and future needs.

► More than 1700 employees worldwide are working in the Kontron group to provide you with one of the largest range of products based on cutting-edge embedded computer technology. With engineering, manufacturing, integration, project management, technical services and sales teams in Europe, North America and the Asia-Pacific regions we are close to you, wherever you are. With our superior services and excellent technical support you significantly reduce your time-to-application and gain a clear competitive edge.

► More than 590 highly qualified engineers in R&D, technical support and project management work together with our experienced sales teams and sales partners to work out a solution that is optimized to your individual application demands, based on standard products, custom-tailored or full custom-engineered solutions. We help you to evolve your embedded application from proprietary to solutions based on standard platforms and orientated to future requirements.

► Together with our major industry partners such as Intel®, Motorola, IBM, Microsoft and WindRiver we help you to get your applications to market quickly. Kontron has been an Intel® ACPP platform solutions provider since the program's inception in 1999 and is now a member of the Intel® Communications Alliance (ICA), which replaced the ACPP program.

► The Kontron organisation is ISO 9001 certified to ensure consistency and the highest level of quality in products and services on a global basis.

► Kontron products are the preferred choice for any application that requires longevity and highly reliable products that are typically integrated, high-performance and dedicated, and installed in a wide range of demanding and mission-critical environments.

► Kontron has been awarded in 2003 by VDC as a "Platinum" vendor for SBCs based on a global customer survey.

► You are invited to visit our website at www.kontron.com.



► The World of Embedded Computing

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➤ MOPS, PC/104 & PC/104-Plus



Features	MOPS/386A	MOPS/520	MOPSIcdSE / MOPS/SE	MOPSIcdVE	MOPSIcdGX1	MOPSIcd6 / MOPS/686+	MOPSIcd7	MOPSIcdTM	speedMOPSIcdCE
CPU supported	Ali® 386SX	AMD® ELAN™ SC520	STPC™ ELITE	VIA® Eden	AMD Geode™ GX1	Intel® Pentium® MMX™	Intel® Celeron™ or Pentium® III	Transmeta Crusoe™	Intel® ULV Celeron™
CPU max. speed	40 MHz	133 MHz	100 MHz, 100 MHz FSB	300/600/1000 MHz	300 MHz	166/266 MHz	300/500/700 MHz	800 MHz	400/733/1000 MHz
Chipset	singlechip	singlechip	on-chip	Twister™T	CS5530A	Ali® M1531 / M1543C	VIA® Twister™T	on-chip	Intel® 815, ICH4
DRAM max. (type)	2 MByte (EDO)	16/32/64 MByte (SDRAM)	32 MByte SDRAM	512 MByte (SDRAM)	256 MByte (SDRAM)	256 MByte (SDRAM)	512 MByte (SDRAM)	1 GByte DDR-RAM	512 MByte SDRAM
DRAM socket	Soldered on	Soldered on	soldered SDRAM	SO-DIMM	1x SO-DIMM, 144 pin	1x SO-DIMM, 144 pin	1x SO-DIMM, 144 pin	SO-DIMM	SO-DIMM
IDE interface	4 MByte flash onboard, 1x IDE	1x IDE	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)	1x EIDE (UDMA-33)
Graphic controller	-	-	SMI Lynx / -	S3 Savage 4 engine	on-chip	- / PCI C+T 69000	on-chip	SMI LynxEM+	on-chip
Graphics memory	-	-	2 MByte / -	32 MByte VRAM UMA	up to 4 MByte (UMA)	- / 2 MByte	up to 32 MByte (UMA)	2 MByte	4 MByte VRAM UMA
Flat panel interface	-	-	JIPA / -	JILI	JILI	- / JIPA	JILI	JIPA	JILI
Ethernet	10Base-T	10/100Base-T	10/100Base-T	10/100	DUAL 10/100Base-T	10/100Base-T	10/100Base-T	10/100	10/100
Ethernet controller	Crystal CS8900	Davicom DM9102A	Davicom 10/100 MBit	Davicom DM9102	Davicom DM9102A	Intel® 82559ER	Davicom DM9102A	Davicom DM9102	Intel® 551ER
USB	-	2	2	2x	2	1	2	2	2x 2.0
Mouse	-	3	PS/2	✓	3	-	3	✓	✓
Power (typical)	2.5 W	3.75 W	5 W	5 V only	approx. 5 W	7 W / 8 W	tbd.	5 V only	tbd.
Expansion	PC/104	PC/104-Plus (optional)	PC/104	PC/104	PC/104	- / PC/104-Plus (optional)	PC/104-Plus	PC/104-Plus	PC/104-Plus
MOPS family features	2x RS232, Lan Boot, I²C, Watchdog, JIDA-Support, JRC-Support, RTC, Dark Boot, Floppy Interface, Enhanced Printer Port, 32-256 MByte chipDISK								full cable re-use to MOPS and MOPS family feature compliant
Special features	8x 10 Touch Matrix, LED character display interface	3x RS-232, 1x TTL, CAN-Bus (Intel® 82527)	fastest full synchronous CPU and SDRAM, fanless, no moving parts	VIA® Eden 1.0 GHz	Dual LAN, CompactFlash socket Type I	fanless Intel® Pentium® MMX 166 MHz	up to 512 MByte SDRAM, 32 MByte VRAM (UMA) passive cooling for Celeron™	DDR-RAM, real low power	low cost, low power
Power consumption (typical)	2.5 W	3.75 W	7 W	tbd.	5 W	7 W / 8 W	11 W	3W @ 800 MHz	tbd.

The PC/104 Solution

PC/104 CPU modules are off-the-shelf solutions for embedded applications requiring PC functionality and flexible expansion. They support 386 to Pentium® III processors and offer a full complement of PC/AT I/O such as keyboard, serial, parallel and IDE interfaces. The full-featured MOPS series also includes onboard Ethernet and graphics.

The PC/104 embedded standard defines a small form factor board and a "stack through" ISA bus. The PC/104-Plus standard extends the standard, adding a "stack through" PCI bus. PC/104 and PC/104-Plus CPU and I/O modules physically stack together to create a rugged, embedded computer. With a wide variety of I/O modules such as serial port expanders, D/A, A/D, digital I/O available from Kontron and other vendors, creating an application-specific system is simple and economical.



Starterkit for PC/104+ systems



Includes: PC/104-ISAPCI-1 adapterboard, power supply, floppy-drive, all cables, without CPU, without I/O graphic board!

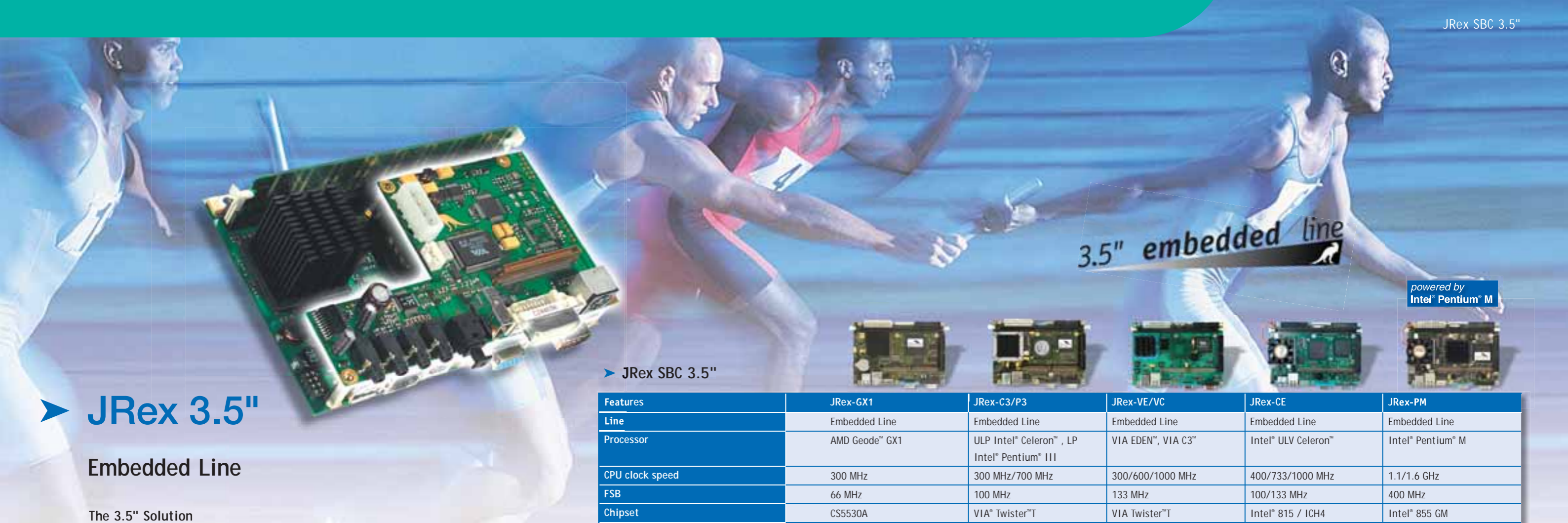
➤ Accessory



PC/104-PCMCIA-1	chipDISK-IDE	Compact flash adapter	PC/104-VGALCD-6
PCMCIA Adapter, 2x Type II or 1x Type III	IDE compatible flash disk 32...256 MByte direct mountable and lockable	2.5" Format CompactFlash Type I, II and Microdrive	for CRT and LCD with JIPA interface



Analog I/O	Digital I/O48	Digital I/O8	Multi Serial
differential or single-ended inputs, 4 analog outputs, 24 digital lines (50 pin IDC)	48 channels of digital I/O, Standard external relay/input conditioning pin out, 2x 50 pin IDC connectors	8 electro-mechanical relays, 8 optically isolated AC/DC inputs, 8 TTL digital inputs	RS422 and RS485 serial HighSpeed, DLC + HDLC support Dual channel sync/async ports
104-A0B4/12	104-DIO48	104-DIO8	FASTCOMESCC-104



JRex 3.5"

Embedded Line

The 3.5" Solution

The 3.5" embedded PCs are off-the-shelf solutions for applications requiring PC functionality, flexible expansion and mechanical integration. They support Geode to Intel® Pentium®M processors and offer a full complement of PC/AT I/O such as keyboard, mouse, serial, parallel, floppy and IDE interfaces. They also include onboard Ethernet, graphics and CompactFlash. LCD/3.5" modules have unique onboard multimedia features such as Firewire and MPEG decoding.

The JRex Embedded Line Series uses the patented JFLEX I/O modules for expansion. This enables full functional low cost I/O. Fast and cost effective custom designs are extremely easy - as LPC, PCI and AC97 are most common to work with. Full chassis re-use is still maintained.

Reduce System Costs!

JRex SBC 3.5"

3.5" embedded line

powered by Intel® Pentium® M



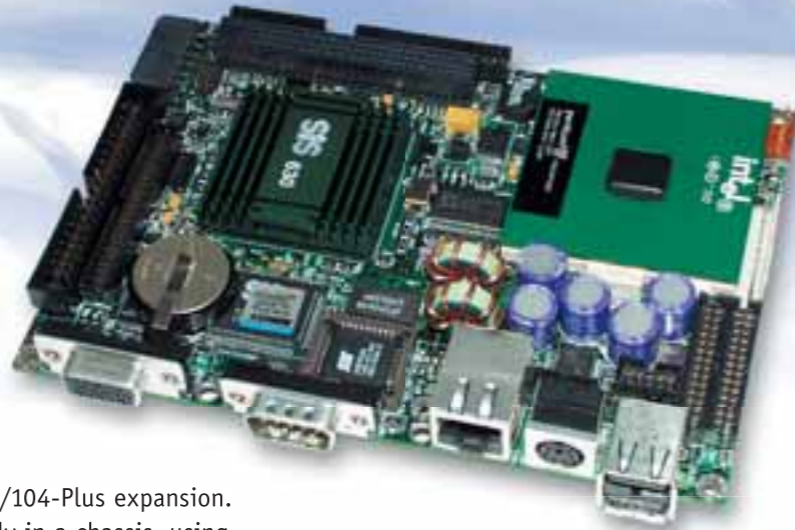
Features	JRex-GX1	JRex-C3/P3	JRex-VE/VC	JRex-CE	JRex-PM
Line	Embedded Line	Embedded Line	Embedded Line	Embedded Line	Embedded Line
Processor	AMD Geode™ GX1	ULP Intel® Celeron™ , LP Intel® Pentium® III	VIA EDEN™, VIA C3™	Intel® ULV Celeron™	Intel® Pentium® M
CPU clock speed	300 MHz	300 MHz/700 MHz	300/600/1000 MHz	400/733/1000 MHz	1.1/1.6 GHz
FSB	66 MHz	100 MHz	133 MHz	100/133 MHz	400 MHz
Chipset	CS5530A	VIA® Twister™T	VIA Twister™T	Intel® 815 / ICH4	Intel® 855 GM
BIOS	Phoenix™	Phoenix™	Phoenix™	Phoenix™	Phoenix™
Power management	APM 1.2	APM 1.2 / ACPI 1.0	APM 1.2 / ACPI 1.0	APM 1.2 / ACPI 2.0	APM 1.2 / ACPI 2.0
Cooling	Passive	300 MHz Passive/ 700 MHz Active	300/600 MHz Passive/ 1000 MHz Active	400 MHz Passive, 733/1000 Active	Active
SDRAM (max.)	256 MByte	512 MByte	512 MByte	512 MByte SDRAM	2 GByte DDR
DRAM socket type	DRAM-DIMM	SDRAM-DIMM	SDRAM-DIMM	SDRAM-DIMM	DDR-RAM-DIMM ECC
Cache	L1: 16 kByte	L2: 256 kByte	L2: 64 kByte	L2: 512 KByte	L2: 1 MByte
HDD	EIDE	EIDE (UDMA-66)	EIDE (UMDA-100)	EIDE (UMDA-100)	EIDE (UMDA-100)
Compact flash disk socket	✓	✓	✓	✓	✓
FDD	2x 1.44/2.88	2x 1.44/2.88	2x 1.44/2.88	2x 1.44/2.88	2x 1.44/2.88
Graphic controller	on-chip	on-chip S3 Savage	4x S3 Savage	Intel® Graphics on-chip	Intel® Extreme Graphics 2
Video RAM UMA	up to 4 MByte	up to 32 MByte	up to 32 MByte	4 MByte VRAM, 32 MByte AGP	up to 32 MByte
VGA	CRT/LCD, JILI-interface	CRT/LCD, JILI-interface	CRT/LCD, JILI-interface	CRT/LCD, JILI-interface	CRT/LCD, JILI-interface
USB	2x	2x	2x	2x USB 2.0	2x USB 2.0
Ethernet 10/100 MBit	1	1	1	1	1
Serial ports	1x, expandable via JFLEX™	1x, expandable via JFLEX™	1x, expandable via JFLEX™	1x, expandable via JFLEX™	1x, expandable via JFLEX™
IEEE 1394 Firewire	via JFLEX™	via JFLEX™	via JFLEX™	via JFLEX™	via JFLEX™
Watchdog timer	✓	✓	✓	✓	✓
System monitoring	✓	✓	✓	✓	✓
Sound	AC97	AC97	AC97	AC97	AC97
Operating temperature	0 - 60° C	0 - 60° C	0 - 60° C	0 - 60° C	0 - 60° C
Dimensions	102 x 147 mm	102 x 147 mm	102 x 147 mm	102 x 147 mm	102 x 147 mm
I/O expansion type	JFLEX™	JFLEX™	JFLEX™	JFLEX™	JFLEX™
Optional extension modules	JFLEX™	JFLEX™	JFLEX™	JFLEX™	JFLEX™

JRex Embedded Line Expansions: JFLEX



JFLEX-Communication1	JFLEX-Multimedia1	JFLEX-PCMCIA1	JFLEX-SERIALGPIO1	JFLEX-Sound1
2x LAN, 2x USB, Firewire	DVI or TV OUT, sound (AC97, SPDIF), Firewire	PCMCIA drive for WLAN and hot swap mass storage	4x COM, 4x8 Bit GPIO, LPT2, CAN-Bus-option	line-in, line-out, mic-in (jackplugs), AC97-sound

3.5" value line



➤ JRex 3.5" Value Line

The JRex Value Line Series uses PC/104 and PC/104-Plus expansion. JRex 3.5" products are designed to mount easily in a chassis, using standard, edge-mounted I/O connectors. JRex Value Line modules can use PC/104 and PC/104-Plus expansion modules available from Kontron or other vendors to tailor the system to the application, as well as specialized audio and video modules available from Kontron.

➤ JRex Value Line Expansions



PanelLink-Transmitter	LVDS-Transmitter	LCDADPT	DSTN Module
internal & external	internal & external	3.3 V & 5.0 V	3.3 V & 5.0 V (GX1LCD only)



Audio Module 786LCD	Audio Module GX1LCD/S	LVDSTX-JPLCD	DVI/TV-Out Module
line-in, line-out, mic, speaker	line-in, line-out, mic, speaker	LVDS Transmitter 50 pin, dual channel	2nd CRT, S-Video and Comp. Video

➤ JRex SBC 3.5"



Features	JRex-GX1LCD	JRex-786LCD
Line	Value Line	Value Line
Processor	AMD Geode™ GX1	Socket 370 Pentium® III and Celeron®
CPU clock speed	Up to 300 MHz	Up to 1 GHz
FSB	66/100 MHz SDRAM clock	66/100/133 MHz
Chipset	CS5530A	SiS630
BIOS	Phoenix™ + IT Utility	Phoenix™ + IT Utility
Power management	APM 1.2 and ACPI 1.0	APM 1.2 / ACPI 1.0
Cooling	Passive	Active
SDRAM (max.)	256 MByte	512 MByte
DRAM socket type	SO-DIMM	SO-DIMM
Cache	L1: 16 kByte	L2: Integrated in CPU
HDD	4x EIDE	4x Ultra DMA 33/66
Compact flash disk socket	✓	✓
FDD	2x 1.44/2.88	2x 1.44/2.88
PC/104 PC/104-Plus	✓/✓	- / ✓
Graphic controller	Geode™ GX1/CS5530A	SiS630 / 128 Bit 3D
Video RAM (UMA)	up to 4 MByte	up to 64 MByte
VGA	CRT/LCD	Dual CRT / LCD
USB	2x	2x (5x)
IrDA	4 MBit	4 MBit
Ethernet 10/100 MBit	1x	1x
Serial ports	2x	2x
Watchdog Timer	✓	✓
System monitoring	✓	✓
Sound	AC97	AC3/AC97/SPDIF
MPEG/DVD	SW MPEG1	HW MPEG2
Operating temperature	0° - 60° C	0° - 60° C
Dimensions	102 x 147 mm	102 x 147 mm
I/O expansion type	PC/104-Plus & PC/104	PC/104-Plus
Optional extension modules	A&V Modules	A&V Modules

► Slot-CPU PISA®



Features	coolMONSTER-S	coolMONSTER-C3	coolMONSTER-P3	coolMONSTER-VE	coolMONSTER-VC
CPU's supported	Fanless Low Power, Intel® Pentium® MMX™	Fanless ULP Intel® Celeron®	Low Power Intel® Pentium® III	VIA® Eden	VIA® C3™
CPU max. speed	266 MHz	300 MHz	400/700/850 MHz	300/600 MHz	1.0 GHz
Chipset	ALI® M1541/M1543C	Intel® 440BX	Intel® 440BX/GX	VIA® Twister™T	VIA® Twister™T
DRAM max. (type)	256 MByte (SDRAM)	256 MByte (SDRAM)	256/512 MByte (SDRAM)	512 MByte (SDRAM)	512 MByte (SDRAM)
DRAM socket	1x DIMM, 168 pin	1x DIMM, 168 pin	1x DIMM, 168 pin	1x DIMM, 168 pin	1x DIMM, 168 pin
L2 cache	512 kByte on chip	128 kByte on chip	256 kByte on chip	64 kByte on chip	64 kByte on chip
Graphics controller	AGP CT 69000	AGP ATI® Rage Mobility	AGP ATI® Rage Mobility	S3 Savage4™	S3 Savage4™
Graphics memory	2 MByte on chip	4 MByte on chip	4/8 MByte on chip	32 MByte UMA	32 MByte UMA
Flat panel interface	JIPA	JILI-LVDS	JILI-LVDS	JILI-LVDS	JILI-LVDS
Ethernet controller	Intel® GD82559ER	Intel® GD82559ER	Intel® GD82559ER	on chip	on chip
Power (typical)	10.5 W @ 5 V	10 W @ 5 V	5 to 32 W @ 5 V	estim. 35 W @ 5 V	estim. 35 W @ 5 V
Expansion	PISA® slot				
Common features	4x RS-232 (one switchable to RS-485), 1x EPP/ECP, 10/100Base-T Ethernet, LAN Boot, Dark Boot, 16 Bit PCI Sound, 1x USB, Keyboard, Mouse, dual Floppy Interface, 2x EIDE (UDMA-33) Watchdog, I²C Bus, RTC, 32.256 MByte chipDISK				

► PISA® Backplanes



Features	PISA-2	PISA-2P3I	PISA-3P4I	PISA-B441A	PISA-B111B
PISA	1x	2x (1x shared)	4x (1x shared)	1x	1x
ISA	1x	1x	-	4x	2x (1x shared)
PCI	-	2x (1x shared)	3x (1x shared)	4x	1x (1x shared)
Power connector	AT	AT	AT	AT	5 V
Keyboard socket	-	-	✓	✓	-
Size	170 x 51 mm (6.7 x 2.0")	170 x 101 mm (6.7 x 4.0")	170 x 146 mm (6.7 x 5.8")	220 x 170 mm (8.7 x 6.7")	170 x 60 mm (6.7 x 2.4")

Product	Article Number	Description
MOPS/386A	01015-0202-33-0	386SX, 40MHz, 2MB DRAM, 2MB Flash-Harddisk, 2xRS232C, LPT, FDC, IDE. Attention: Extended Leadtime and Minimum Lot sizes can apply.
MOPS/SE	01031-1600-13-1	Low Power STPC ELITE 100MHz, 100MHz FSB = featest full Sync Mode, soldered SDRAM 16 MByte, 2xRS232C, 2xUSB, LPT, FDC, IDE and with 10/100Mbit Ethernet
MOPS/520	01025-3200-13-1	Low Power AMD™ SC520 133MHz, onboard 32 MByte SDRAM, 3xRS232C, 1xTTL, 2xUSB, LPT, FDC, IDE, with Ethernet (10/100 Mbit).
	01025-6400-13-3	The same but with onboard 64 MByte SDRAM, CAN-Bus (1 Mbit) and PC/104+Bus.
MOPS/686+	01023-0000-17-4	FANLESS LP Intel® Pentium® 166MHz, one SODIMM-socket for SDRAM, 2xRS232C, USB, LPT, FDC, IDE, with Intel® 551ER Ethernet (10/100 Mbit)
	01023-0000-27-4	The same but with LP Intel® Pentium® 266MHz, fan.
MOPScdSE	01031-3200-13-1	Low Power STPC ELITE 100MHz, 100MHz FSB = featest full Sync Mode, SMI Lynx 2 MB VRAM, soldered 32 MByte SDRAM, 2xRS232C, 2xUSB, LPT, FDC, IDE, JIPA panel interface and with 10/100Mbit Ethernet
MOPScdVE	01032-0000-30-1	FANLESS VIA Eden™ processor with 300MHz, VIA Twister™T chipset, VGA/LCD on-chip with up to 32 MB VRAM UMA, JILI (LVDS) Interface, SODIMM-SDRAM-socket for up to 512 MB, 2xRS232C, LPT, FDC, EIDE, Kb/mouse, 2xUSB and 10/100 Base-T Ethernet.
	01032-0000-60-1	The same with VIA Eden™ processor with 600MHz, fan.
	01032-0000-10-1	The same with VIA Eden™ processor with 1.0GHz, fan.
MOPScdGX1	01028-0000-30-2	Geode GX1, 300MHz, one SODIMM-SDRAM-socket for up to 256 MB, 2xRS232C, LPT, FDC, IDE, PS/2 mouse, 2xUSB, JILI (LVDS) Interface and DUAL 10/100 Base-T Ethernet.
MOPScd6	01023-0000-17-2	Low Power Intel® Pentium® 166MHz, one SODIMM-socket for SDRAM, High Speed Video (PCI) for CRT and LCD-Panels, 2xRS232C, USB, LPT, FDC, IDE with Intel® 551ER Ethernet (10/100 Mbit) - fanless-
	01023-0000-17-3	The same but with PC/104+Bus.
	01023-0000-27-2	Low Power Intel® Pentium® 266MHz, one SODIMM-socket for SDRAM, High Speed Video (PCI) for CRT and LCD-Panels, 2xRS232C, USB, LPT, FDC, IDE, fan and with Intel® 551ER Ethernet (10/100 Mbit)
	01023-0000-27-3	The same but with PC/104+Bus.
MOPScd7	01029-0000-30-1	Intel® ULP Celeron™, 300MHz, one SODIMM-SDRAM-socket for up to 512 MB, 2xRS232C, LPT, FDC, IDE (UDMA-33), Kb/mouse, 2xUSB, JILI (LVDS) Interface, PC/104+ and 10/100 Base-T Ethernet.
	01029-0000-50-1	The same but with Intel® LP Pentium® III, 500MHz, fan.
	01029-0000-70-1	The same but with Intel® LP Pentium® III, 700MHz, fan.
MOPScdTM	01033-0000-80-1	Transmeta Crusoe 800MHz, one SODIMM-socket for DDR-RAM, 2MB VRAM LynxEM+ graphics for CRT and LCD-Panels, 2xRS232C, 2xUSB, LPT, FDC, IDE, fan, with Ethernet (10/100 Mbit) and PC/104+Bus.
speedMOPScdCE	01040-0000-40-1	FANLESS Ultra Low Voltage Intel® Celeron® 400MHz/815/ICH4, one SODIMM-socket for SDRAM, High Speed Video on-chip for CRT and LCD-Panels, 2xRS232C, 2xUSB 2.0, LPT, FDC, IDE, Sound, fan, with 10/100Ethernet (10/100 Mbit) and PC/104+Bus.
	01040-0000-70-1	The same but with Ultra Low Voltage Intel® Celeron® 733MHz, fan.
	01040-0000-10-1	The same but with Ultra Low Voltage Intel® Celeron® 1.0GHz, fan.
JRex-GX1	02001-0000-30-1	Geode™ GX1 Processor 300MHz, VGA/LCD (18-Bit TFT), JILI Interface, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02001-0005-30-1	The same but with 5V power supply
JRex-VE	02003-0000-30-1	VIA Eden™ processor with 300MHz, VIA Twister™T chipset, VGA/LCD on-chip, JILI Interface, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02003-0005-30-1	The same but with 5V power supply
	02003-0000-66-1	VIA Eden™ processor with 600MHz, VIA Twister™T chipset, VGA/LCD on-chip, JILI Interface, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02003-0005-66-1	The same but with 5V power supply
JRex-VC	02003-0000-10-2	VIA C3™ processor with 1.0GHz, VIA Twister™T chipset, VGA/LCD on-chip, JILI Interface, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02003-0005-10-2	The same but with 5V power supply
JRex-CE	02005-0005-40-1	ULV Intel® Celeron® processor with 400MHz, Intel 815 chipset, JILI Interface, VGA/LCD on-chip, 10/100Base-T, 1xCOM, 2xUSB 2.0, LPT, IDE. JFLEX extension. 5V compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket. Fan.
	02005-0005-73-1	The same but with ULV Intel® Celeron® processor with 733MHz, fan.
	02005-0005-10-1	The same but with ULV Intel® Celeron® processor with 1.0GHz, fan.
JRex-C3	02002-0000-30-1	ULP fanless Intel® Celeron® processor with 300MHz, VIA Twister™T chipset, JILI Interface, VGA/LCD on-chip, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02002-0005-30-1	The same but with 5V power supply
JRex-P3	02002-0000-70-1	Low Power Intel® Pentium® III processor with 700MHz, VIA Twister™T chipset, VGA/LCD on-chip, JILI Interface, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. ATX compatible power socket, SDRAM-DIMM-socket. Compact-Flash™ socket.
	02002-0005-70-1	The same but with 5V power supply
JRex-PM	02004-0000-11-1	Intel® Pentium® M processor with 1.1GHz, Intel® 855 chipset, JILI Interface, VGA/LCD on-chip, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, DDR-SDRAM-DIMM-socket. Compact-Flash™ socket.
	02004-0005-11-1	The same but with 5V power supply
	02004-0000-16-1	Intel® Pentium® M processor with 1.6GHz, Intel® 855 chipset, JILI Interface, VGA/LCD on-chip, 10/100Base-T, 1xCOM, 2xUSB, LPT, IDE. JFLEX extension. Full ATX compatible power socket, DDR-SDRAM-DIMM-socket. Compact-Flash™ socket.
	02004-0005-16-1	The same but with 5V power supply
JFLEX-Communication1	02050-0001-22-0	I/O extension for JRex boards with: 2xLAN (10/100BaseT), 2xUSB, 1xFirewire.
JFLEX-Multimedia1	02051-1001-11-0	I/O extension for JRex boards with VIA TwisterT chipset: TV Out/DVI, Sound (AC97, SPDIF) incl. amplifier, Firewire
JFLEX-Multimedia2	02051-1001-11-1	I/O extension for JRex boards with Geode chipset: TV Out/DVI, Sound (AC97) incl. amplifier, Firewire
JFLEX-Visualisation1	02052-0000-11-0	I/O extension for JRex boards with: Graphic C&T 69000 for CRT, JIPA interface for DUAL Screen, 1xCOM for GEODE based boards
JFLEX-Sound1	02053-0000-01-0	I/O extension for JRex boards with: Sound AC97 (Line-In., MIC-In and Line-Out)
JFLEX-PCMCIA1	02054-0000-01-0	I/O extension for JRex boards with: PCMCIA drive, 32 Bit PC Card compatible, Dual Slot, without software.
JFLEX-SERIALGPIO1	02055-1111-32-0	I/O extension for JRex boards with: 3xCOM as 3xRS232 or as 3xTTL and 1xCOM as 1xRS422/485, LPT2 and 4x8bit GPIO
JFLEX-SERIALGPIO1-CAN	02055-1111-32-1	I/O extension for JRex boards with: 3xCOM as 3xRS232 or as 3xTTL and 1xCOM as 1xRS422/485, 4x8bit GPIO and CAN controller
JRex-GX1LCD Standard	710270-1745	200MHz GX1 Processor, VGA/LCD, 10/100Base-T, 2x RS232C, ISA, PC/104, USB, LPT, IDE, CompactFlash, no PC/104+, no Audio, no on-board speaker and no monitoring function. AVAILABLE FOR HIGH VOLUME ONLY!
JRex-GX1LCD Plus	710280-1746	300MHz GX1 Processor, VGA/LCD, 10/100Base-T, 1x RS485/422/232, 1x RS232C, ISA, PC/104+, USB, LPT, IDE, CompactFlash, Audio, Monitoring function. AVAILABLE FOR HIGH VOLUME ONLY!
JRex-786LCD	710170-1747	Socket 370, 128-Bit 2D/3D VGA/LCD, 10/100Base-T, 2xCOM, PC/104+, Sound, USB, LPT, IDE, CompactFlash, with cooler & fan.
	710170-1750	The same but with 733/66MHz Celeron, with cooler & fan. AVAILABLE FOR HIGH VOLUME ONLY!
	710170-1752	The same but with 700/100MHz Pentium III, with cooler & fan. AVAILABLE FOR HIGH VOLUME ONLY!
	710170-1794	The same but with 1GHz/133 Pentium III, with cooler & fan. AVAILABLE FOR HIGH VOLUME ONLY!
	721040	PS/2 Mouse Bracket
	726400	USB (2 channels) Bracket
	50300021	COM2 Port cable for JRex 786 & GX1
	50300026	LPT1 Port cable 2mm for JRex 786 & GX1
	30850048	Floppy disk cable JRex 786 & GX1
coolMONSTER/VE-300	07028-0000-30-1	FANLESS VIA Eden™ with 300MHz, VIA Twister™T chipset, 1xDIMM socket for up to 1 GB SDRAM, 4xRS232C, LPT, FDC, IDE, USB, S3 Savage 4 engine 32MB VRAM (UMA) for CRT and LCD, JILI-LCD-Interface, Sound, 10/100 Mbit Ethernet.
coolMONSTER/VE-600	07028-0000-60-1	The same but with FANLESS VIA Eden™ with 600MHz.
coolMONSTER/VC-1000	07028-0000-10-1	The same but with VIA C3™ with 1.0GHz, PadLock™ Data Encryption Engine, fan.
coolMONSTER/S266L-E4	07024-0000-26-4	FANLESS LP Intel® Pentium® MMX™ 266 MHz, 1 DIMM socket for SDRAM, VGA/LCD controller, 4xRS232C, LPT, FDC, IDE, USB, PISA®-Bus, Half Size. With Ethernet (10/100 Mbit) and Sound.
coolMONSTER/C3-300	07025-0000-30-1	FANLESS Intel® ULP Celeron™ 300 MHz, 440BX chipset, 1x DIMM socket for up to 256 MB SDRAM, 4xRS232C, LPT, FDC, IDE, USB, 4 MByte VRAM AGP for CRT/LCD, Sound, 10/100 Mbit Ethernet.
coolMONSTER/P3-400	07025-0000-40-1	The same but with LP Intel® Pentium® III 400 MHz, fan.
coolMONSTER/P3-700	07025-0000-70-1	The same but with LP Intel® Pentium® III 700 MHz and 8 MByte VRAM, fan.
coolMONSTER/P3-850	07025-0000-85-1	LP Intel® Pentium® III 850 MHz, 440GX chipset, 1xDIMM socket for up to 512 MB SDRAM, 4xRS232C, LPT, FDC, IDE, USB, 8 MByte AGP for CRT and LCD, Sound, 10/100 Mbit Ethernet, fan.
PISA-2	07006-0100-01-0	PISA-Backplane with 1 ISA-Slot and 1 PISA® Slot, 170x51 mm
PISA-B111B	07006-0101-01-0	PISA-Backplane with 1 ISA-Slot, 1 PCI or ISA-Slot and 1 PISA® Slot, 175x60 mm
PISA-2P3I	07006-0102-02-0	PISA-Backplane with 1 ISA-Slots, 2 PCI-Slots and 2 PISA® Slots, 170x102 mm
PISA-3P4I	07006-0003-04-0	PISA-Backplane with 3 PCI and 4 PISA® Slots, 175x142 mm
PISA-B441A	07006-0404-01-0	PISA-Backplane with 4 ISA-Slots, 4 PCI-Slots and 1 PISA® Slot, 220x170 mm

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Kontron Embedded Modules GmbH

Brunnwiesenstraße 16
94469 Deggendorf, Germany
Tel.: +49 (0) 991 37024 100
Fax: +49 (0) 991 37024 102
sales-kem@kontron.com
www.kontron.com
www.kontron.com/JREx
www.kontron.com/MOPS

Kontron America

6260 Sequence Drive
San Diego, CA 92121-4371
Tel: +1 888 294 4558
Fax: +1 858 677 0898

Kontron Embedded Technology

Far East Science Park, 2nd Floor No. 2, Lane 50,
Nan Kang Road Section 3, Nan Kang District
Tel: +886-2-2782-0201
Fax: +886-2-2782-7486

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