Qespac

EBX FORM FACTOR

3½" BISCUIT

ISA HALF CARD

PC/104

OEM

THE INDUSTRIAL PC EXPERTS

Since 1979, Gespac has designed, manufactured and marketed innovative industrial computer boards and systems. Gespac has built a solid reputation for products devoted to a wide range of embedded computer application fields, including medical, telecom, military & aerospace, and industrial machine control. Gespac understands and practices the requirements for quality in design and production, stable and long term availability, and professional support that is needed and expected by our customers.
Gespac has now brought to market a new line of general-purpose single board computers in a variety of form factors and processor types. All are highly integrated with rich, complete feature sets, in well-known standard form factors.

OPERATING SYSTEMS

Operating Systems Supported :

- DOS
- Windows 3.1
- Windows 9x
- Windows NT 4.0
- Windows 2000
- Windows XP
- Windows CE
- Linux

SYSTEM INTEGRATION

Gespac offers superb technical support to clients integrating our products into their systems.
Gespac also can assist in system design and integration on a turnkey basis. Gespac has extensive experience in system level design and production, particularly in the transportation and medical fields.

MODEL NUMBERING

The model numbering system is mnemonic. The first 3 letters indicate the form factor; the second 3 letters indicate the chip set used.

FORM FACTOR

- EBX: SBC
- 3½" BISCUIT: SBB
- PC/104: PCC
- ISA HALF: HPI

CHIP SET

- 386SX: CPU
- NSGEODE: GEO
- INTEL: INT
- VIA: VIA

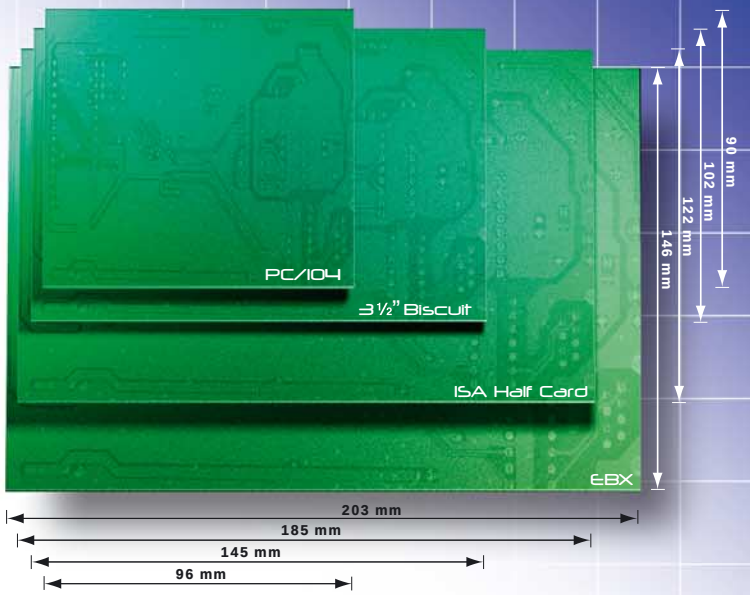
ISO 9000:2000 certified

Gespac is a PICMG executive member

www.gespac.com

WIDE RANGE OF FORM FACTORS

Gespac's EBX form factor boards (also known as 5¼" form factor) offer the most extensive range of processors and features in the line. The 3½" Biscuit Board line have a slightly reduced feature set, but a much more compact size. The widely used standard PC/104 boards are extremely small in size. There are also boards in the ISA half card format for use with ISA passive backplane systems.



All boards in the line have a PC/104 site, so almost any required feature extension can be easily added. All EBX models additionally have a PCI expansion slot. Drivers are supplied for all applicable Windows operating systems, including Windows XP and CE, as well as for Linux.

Boards are available with processors ranging from the 386SX-40 for simple computing tasks, up to the Socket 370 Pentium III Tualatin running at 1.3 GHz. Boards based on the GEODE GX1 300 MHz, comparable to a P1 processor with very low power consumption and dissipation, are fanless and low profile. Boards based on the EDEN 733 MHz, comparable to a PIII processor with low power, are also fanless (fanless EDEN 800 MHz based boards will be available early 2004).
All but the simplest of the boards provide on-board graphics support for both VGA displays and flat panel displays. Most provide both TTL and LVDS interfaces for flat panels.

All boards except some of the PC/104 boards, have 10/100 Ethernet on-board.
Up to 3 on-board Ethernet controllers are available. Our standard Ethernet controller chip is the RealTek 8139; most boards can be mounted with the Intel 82559 instead, as an option.

Most boards have pin headers, the most cost-effective and efficient method for interfacing embedded boards. Some boards though have RJ-45, COM, VGA, and KBM connectors on-board for applications where standard connectors are preferred.
For applications requiring a solid-state-disk drive, most models include either a DiskOnChip socket, or a CompactFlash II socket. The CompactFlash II socket can accept an IBM Microdrive, a magnetic rotating drive in a CompactFlash package, which should be employed instead of a solid state drive if the application requires intensive read/write cycles with an on-board ultra-miniature disk drive.

Processors available by Form Factor

	386SX-40	GEODE	EDEN	Socket 370
EBX		X	X	X
3½" Biscuit		X	X	
PC/104	X	X		
ISA Half Card		X	X	

Graphics capability by Processor Type

	PCCCPU-1	GEODE based	Intel based	VIA based
Max Resolution	800 X 600	1024 X 708	1280 X 1024	1600 X 1200
Video Memory	.5 - 1M	4M	8M	8 - 32M
Type	generic	generic	S3 AGP-2X	Savage4 AGP-4X

EBX Form Factor

SBCGEO-1/-2

Lowest cost, lowest power EBX

The SBCGEO models are based on the GEODE GX1 300 MHz processor. This low profile, low power, fanless board is designed for medium speed computing applications. With integrated video, it supports XVGA CRT and 18-bit LCD displays.

- 300 MHz GEODE GX1 processor
- Core comparable to Pentium I MMX
- Up to 128 M RAM
- Up to 4 M (shared) video RAM
- 10/100 Ethernet (optionally 2)
- Quad serial ports
- Dual USB ports
- Dual ATA/33 ports (up to 4 IDE devices)
- DiskOnChip socket (+ optional CF-2)
- VGA, TFT TTL interface (-1), or LVDS (-2)
- Low profile
- Optional touch panel interface
- 9 watts typical consumption

SBCVIA-EDER

Most cost-effective PIII class EBX

The SBCVIA-EDER is equipped with an EDEN 733 MHz processor and the VIA Twister chipset. This low power, fanless board is designed for high speed computing applications. With integrated AGP-4X Savage4 video, it supports XVGA CRT and 36-bit LCD displays.

- 733 MHz EDEN processor
- Core comparable to Pentium III
- VIA VT8606 "Twister" Chipset
- Up to 512 M RAM
- 133 MHz FSB
- 8-32M SMA (shared) video RAM
- 10/100 Ethernet
- Quad serial ports
- Quad USB ports
- Dual ATA/100 ports (up to 4 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- Savage4 AGP-4X
- VGA, TFT TTL interface, and LVDS
- Optional touch panel interface
- 16 watts typical consumption

SBCVIA-PIIIR

Fastest board in the line

The SBCVIA-PIIR accepts Socket370 processors with clock speeds up to 1.3 GHz and is equipped with the VIA Twister chipset. This full featured board is designed for the most intensive computing applications. With integrated Savage4 AGP-4X video, it supports XVGA CRT and 36-bit LCD displays.

- Socket370 processor up to 1.3 GHz
- VIA VT8606 "Twister" Chipset
- Up to 512 M RAM
- 133 MHz FSB
- 8-32M SMA (shared) video RAM
- 10/100 Ethernet
- Quad serial ports
- Quad USB ports
- Dual ATA/100 ports (up to 4 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- Savage4 AGP-4X
- VGA, TFT TTL interface, and LVDS
- Optional touch panel interface
- 32 watts typical consumption

EBX Form Factor

SBCINT-PIII

Intel chipset, Intel Ethernet

The SBCINT-PIII accepts Socket370 processors with clock speeds up to 1.0 GHz and is equipped with the Intel 82443BX/ 82371EB chipset. It also has an Intel Ethernet controller. With integrated S3 AGP-2X video, it supports XVGA CRT and 36-bit LCD displays.

- Socket370 processor up to 1.0 GHz
- Intel 82443BX/ 82371EB chipset
- Up to 256 M RAM
- 100 MHz FSB
- 8-32M SMA (shared) video RAM
- 10/100 Ethernet
- Quad serial ports
- Quad USB ports
- Dual ATA/33 ports (up to 4 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- S3 AGP-2X
- VGA, TFT TTL interface, and LVDS
- Optional touch panel interface
- 36 watts typical consumption

SBCVIA-FIER

Low-power Firewall Server

The SBCVIA-FIER has 3 Ethernet controllers on board.
It is equipped with an EDEN 733 MHz processor and the VIA Twister chipset. This low power, fanless board is designed for firewall applications. With integrated AGP-4X Savage4 video, it supports XVGA CRT and 36-bit LCD displays.

- 733 MHz EDEN processor
- Core comparable to Pentium III
- VIA VT8606 "Twister" Chipset
- Up to 512 M RAM
- 133 MHz FSB
- 8-32M SMA (shared) video RAM
- 3 X 10/100 Ethernets
- Dual serial ports
- Quad USB ports
- Dual ATA/100 ports (up to 4 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- Savage4 AGP-4X
- VGA, TFT TTL interface, and LVDS
- 3 X RJ-45, VGA, COM, KBM connectors
- 15 watts typical consumption

SBCVIA-FITR

High-speed Firewall Server

The SBCVIA-FITR has 3 Ethernet controllers on board. It accepts Socket370 processors with clock speeds up to 1.3 GHz and is equipped with the VIA Twister chipset. This full featured board is designed for the most intensive computing firewall applications. With integrated Savage4 AGP-4X video, it supports XVGA CRT and 36-bit LCD displays.

- Socket370 processor up to 1.3 GHz
- VIA VT8606 "Twister" Chipset
- Up to 512 M RAM
- 133 MHz FSB
- 8-32M SMA (shared) video RAM
- 3 X 10/100 Ethernets
- Dual serial ports
- Quad USB ports
- Dual ATA/100 ports (up to 4 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- Savage4 AGP-4X
- VGA, TFT TTL interface, and LVDS
- 31 watts typical consumption

3½" Biscuit

SBBGEO-1

Lowest cost Pentium-class

The SBBGEO-1 is based on the GEODE GX1 300 MHz processor. This compact, low profile, low power, fanless board is designed for medium speed computing applications. With integrated video, it supports XVGA CRT and 18-bit LCD displays.

- 300 MHz GEODE GX1 processor
- Core comparable to Pentium I MMX
- Up to 128 M RAM
- Up to 4 M (shared) video RAM
- 10/100 Ethernet
- Dual serial ports
- Quad USB ports
- ATA/33 port (up to 2 IDE devices)
- DiskOnChip socket
- VGA, TFT TTL interface
- Low profile
- RJ-45, VGA, COM, KBM connectors
- Optional touch panel interface
- 9 watts typical consumption

SBBVIA-EDER

Low profile, compact PIII-class

The SBCVIA-EDER is equipped with an EDEN 733 MHz processor and the VIA Twister chipset. This low power, fanless board is designed for high speed computing applications. Its special heatsink makes it ideal for very low profile applications. With integrated AGP-4X Savage4 video, it supports XVGA CRT and 36-bit LCD displays.

- 733 MHz EDEN processor
- Core comparable to Pentium III
- VIA VT8606 "Twister" Chipset
- Up to 256 M RAM
- 133 MHz FSB
- 8-32M SMA (shared) video RAM
- 10/100 Ethernet
- Quad serial ports
- Dual USB ports
- ATA/100 port (up to 2 IDE devices)
- CompactFlash II socket
- 8 channel digital I/O
- Savage4 AGP-4X
- VGA, TFT TTL interface, and LVDS
- RJ-45, VGA, COM, KBM connectors
- 14 watts typical consumption

ISA Half Cards

HPIGEO-1

Pentium-class for passive backplanes

The HPIGEO-1 is based on the GEODE GX1 300 MHz processor. This low profile, low power, fanless board is designed for medium speed computing in ISA passive backplane applications. With integrated video, it supports XVGA CRT and 18-bit LCD displays.

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- Core comparable to Pentium I MMX
- Up to 128 M RAM
- Up to 4 M (shared) video RAM
- 10/100 Ethernet
- Dual serial ports
- Dual USB ports
- Dual ATA/33 ports (up to 4 IDE devices)
- DiskOnChip socket (+ optional CF-2)
- VGA, TFT TTL interface
- Low profile
- RJ-45, VGA, COM, KBM connectors
- Optional touch panel interface
- 9 watts typical consumption

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