

CorBrick855E

CORBRICK FAMILY

FANLESS, MULTI I/O EMBEDDED SYSTEM

COMPACT, RUGGED, FANLESS, MULTI-SERIAL
HIGH PERFORMANCE-PER-WATT PACKAGE



PRODUCT HIGHLIGHTS

- EPIC Form Factor (4.5" x 6.5")
- Compact profile 8" x 4" x 8" (203.2mm x 101.6mm x 203.2mm)
- 600MHz, 1.0GHz Pentium® M, 400MHz FSB, 1MB L2 cache
- 1GB DDR-333
- Low Profile CD/DVD Drive
- 250GB WD SATA Drive
- High resolution graphics, 10/100/1000 Ethernet, six (6) USB 2.0 ports, four (4) serial ports, factory upgradeable to six (6)
- 90/120W DC/DC Power Board plus Brick
- Optional 1.4GHz Pentium® M
- Five (5) to Eight (8) Year Guaranteed Production
- Two (2) Year Warranty

GATOR EPIC



Industrial motherboard proudly owned, uniquely designed and manufactured by Corvalent



The CorBrick855E™

Ready-to-go certified and prepackaged configuration built around the small footprint, high performance-per-watt board. The Gator EPIC is a long-life industrial motherboard in a compact and rugged multi I/O system. The **CorBrick855E** offers a modular platform for a broad array of thermal density and size constrained applications.

The Intel® 855GME chipset of the Gator EPIC industrial motherboard provides virtually all of the resources needed to build a reliable and consistent computation platform for virtually any application.

A wealth of generic and legacy I/O (multi-serial, parallel, and USB ports) and high resolution using Intel® Extreme Graphics 2 Technology provide the basis for a broad range of 3D/2D graphics interface with resolutions up to 1800x1440 @ 85Hz max CRT or 2048x1536 @ 60Hz max FP. Additional features like total fanless system and solid-state storage improve long-term reliability and provide maximum integration.

As a starting point for a project requiring low power, sophisticated processing and I/O capabilities, the **CorBrick855E** is unique. Where most pre-configured systems are fixed configuration environments and have space constraint limita-

tions, this system is specifically engineered for ease and ready-to-go deployment.

In addition to the standard features offered, the **CorBrick855E** can be customized with LVDS and I394 controllers and Wi-Fi 802.11 ports, and memory and storage options. Corvalent offers BIOS customization, which can include splash screens and limiting which options can be modified in the field.

OUR COMMITMENT TO QUALITY

All Corvalent products are designed and manufactured in an ISO 9001:2000 environment and backed by a five (5) to eight (8) year production life cycle guarantee.

TECHNICAL SPECIFICATIONS

Form Factor	Compact All-in-One - 8" x 4" x 8" (203.2mm x 101.6mm x 203.2mm)
Motherboard	Corvalent - Gator EPIC (GMEEP)
Form Factor	EPIC (4.5"x 6.5")
I/O	Two (2) Serial ATA connectors (150MB/s) One (1) 44-pin PATA100 EIDE connector Six (6) USB 2.0 port headers RS232 serial port options available: two (4) or six (6) ports One (1) factory configurable to RS422/RS485 One (1) ECP/EPP parallel port header One (1) PS/2 mouse/keyboard header
Memory	One (1) SODIMM slot supports 1GB of DDR 333/266 SDRAM (Supports both ECC and non-ECC memory modules)
Networking	One (1) on-board Ethernet port Ethernet options include 10/100 and 10/100/1000 ports
Audio	AC'97 compatible sound controller
Video	Onboard integrated graphics utilizing Intel® Extreme Graphics 2 Technology LVDS controller
Industrial Device	Hardware monitoring including fans CPU temperature and voltages
Power Supply	Built-in P4 DC power board
Standard Drives	One (1) slim media and one (1) slim HDD (2.5") or 1 slim media and one (1) standard 3.5" HDD (w/o add-on card installed)
Expansion Slots	Right angle riser carrying: (Other configurations available) Optional PCI 104 slot Optional Add-on card
Fans	Optional System Fan

Environmental Specifications

CATEGORY	OPERATING	NON-OPERATING
Temperature	-10°C to 75°C	-40°C to 85°C
Humidity	5 to 95% @ 40°C non-condensing	5 to 95% @ 40°C non-condensing

KEY FEATURES

- High performance per watt system for thermal density and space constrained industrial applications
- Flexible configuration
- Integrated Graphics and RAID controller allows better I/O expandability
- Large I/O support
- Wall mount brackets included
- Fully RoHS compliant
- Five (5) to Eight (8) Year Guaranteed Production



ADDITIONAL OPTIONS

- Two (2) additional RS-232 ports
- Up to 1GB of DDR-333 SDRAM
- Wide variety of Intel Embedded Pentium Mobile processors
- Fanless system configuration available on request
- Customized BIOS settings
- Customized branding
- Operating system loaded
- Complete application loaded
- Finished product can be supplied with custom cards, software, and custom testing.

CorBrick 945GSB™

ECO-FRIENDLY MICRO INDUSTRIAL SYSTEM

CONVERGING HIGH-PERFORMANCE
AND VALUE WITH A LONG-LIFE CYCLE



PRODUCT HIGHLIGHTS

- 1.96" x 4.64" x 7"
(50mm x 118mm x 178mm)
- Intel® Atom™ N270 Processor
- Supports up to 2GB DDR2
(400/533MHz)
- Optional 2.5" HDD or high
temperature industrial SSD
storage drives.
- Two (2) Marvell 88E8053
Gigabit Ethernet Ports
- Four (4) USB 2.0 ports (back)
One (1) USB 2.0 port (headers)
- SATA, PATA, and Compact Flash
Storage Options
- External 12v 60W Power Supply
- Windows XP or Vista Pre-Loaded

KEY FEATURES

- Tiny fanless enclosure is about
the size of a paperback book
- Includes power supply and stand
- Integrated graphics
- Dual Gigabit Ethernet Ports
- NTSC and VGA Video output
- Fully RoHS compliant
- Customized BIOS settings
- Operating system loaded
- Customizable RAM, Hard Drive
Type/Size, Mounting Kits, Etc.

The CorBrick 945GSB™



is a packaged configuration built around the Corvalent 945GSBC™ long-life industrial motherboard. The CorBrick 945GSB™ offers good performance in a low power, low thermal signature configuration. Ideal for a broad array of display, automation control and network applications. In addition to the internal 2.5" hard drive, a compact flash slot is available for an inexpensive upgrade to solid state storage, or for easy offline data export. Features multiple Serial, USB and Gigabit Ethernet ports as well as built-in audio and NTSC video /VGA output. The built in video supports single resolutions up to 2048x1536 @ 75Hz max. Or simultaneously output both DVI and VGA video independently, ideal for digital signage applications. (Optional factory configuration (shown above) can replace DVI with an external RS434/485 serial port)



As always, Corvalent can custom configure the system to your exact project specifications. Custom options such as extreme temperature & vibration resistant solid state hard drives, customized BIOS, additional RAM, VESA and DIN-Rack mounting kits are all available depending on your specific needs. And like always, our motherboards are available for at least (7) to (10) years, ensuring you a reliable and consistent source of computing technology for years to come.

OUR COMMITMENT TO QUALITY

Corvalent systems are manufactured in our Austin, TX facility. Corvalent motherboards are backed by a (7) to (10) year production life cycle guarantee. All of our products are designed and manufactured in an ISO 9001:2000 environment.

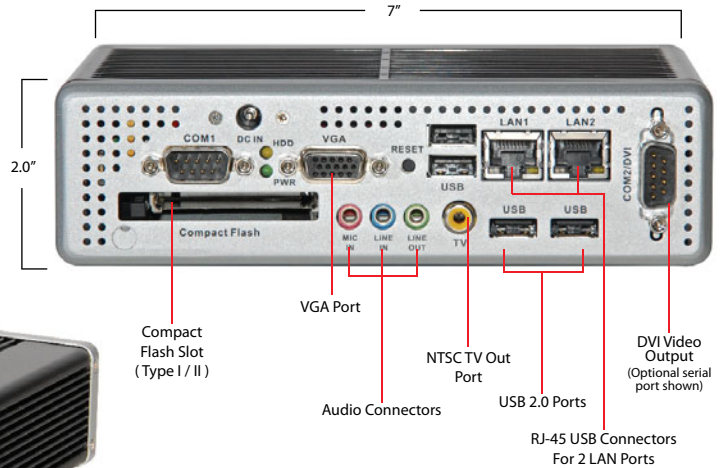


CorBrick 945GSB™

ECO-FRIENDLY, MICRO INDUSTRIAL SYSTEM



Aluminum Stand For Vertical Placement (Included)



TECHNICAL SPECIFICATIONS

Form Factor	3.5" (5.7" x 4") SBC Motherboard
Cooling Units	None: Fanless system
Air Flow	Rear vents and direct to case thermal transfer from processor
Standard Drives	One (1) 2.5" SATA HD
Drive Bays	One (1) CF Memoy slot (open)
Expansion Slots	One (1) Mini PCIe slot,
Motherboard	Corvalent - 945GSBC (G2735)
Dimensions	7" x 4.4" x 2.0" (178mm x 112mm x 50mm)
Microprocessor	Embedded Intel® Atom™ N270 1.6GHz CPU
Chipset	Intel 945GSE + ICH7-M
Front Side Bus	533MHz
Memory	2GB Max DDR2 400/533 MHz SDRAM
System Bus	One (1) Mini PCIe Card One (1) Compact Flash Type I/II socket
Onboard I/O	ITE 8712F IO Chip: One (1) EIDE (Ultra DMA 100) Two (2) SATA One (1) RS-232 One (1) RS-232/422/485 (factory option) One (1) K/B & Mouse Six (6) USB 2.0 ports, 16-bit General Purpose I/O for DI and DO One (1) VGA Port One (1) RCA NTSC Video Port One (1) (Factory Installed Option) DVI Port

Video Graphics	Intel 945GSE Integrated, Intel DVM T 3.0 Supports up to 224 MB Shared Video Memory, with a max resolution of 2048 x 1536 or 1900 x 1200 (VGA +DVI)
Ethernet	Dual Marvell 88E8053 Gigabit Ethernet, 1000 Base-Tx Ethernet Compatible
Audio	Realtek ALC655 5.1 Channel Audio
Industrial Devices	Hardware Monitoring, watchdog timer
BIOS	Award® 8MB Flash BIOS
Battery	Removable lithium battery for CMOS memory
Operating Temp	0°C to 40°C
Non-Operating	-20°C to 75°C
Op. Humidity	5% to 90% @ 40°C non-condensing
Non-Operating	5% to 90% @ 40°C non-condensing
Part Number	FC-G2735