



# NEWS RELEASE

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FOR TECHNICAL EDITORS

## MICRO INDUSTRIES® mTG855 EMBEDDEDATX MOTHERBOARD INCORPORATES THE INTEL® PENTIUM® M PROCESSOR

*Intel Pentium M Processor Delivers High Performance and Low Power;  
EmbeddedATX Open Architecture Ensures  
Long-Term Availability*

*“We are offering our customers an EmbeddedATX-based motherboard that can satisfy their requirements — now and well into the future — for running high performance, low power, applications. The new mTG855 can support current and emerging applications in the retail, medical, transportation, and industrial markets.”*

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Westerville, OHIO — June 9, 2003 — Micro Industries announced the release of its mTG855 motherboard, the latest in its family of EmbeddedATX (EmbATX) boards and the first in the product portfolio to feature the Intel® Pentium® M processor. This processor provides the high performance and outstanding instruction execution per watt with the advantage of low power consumption, eliminating heat problems in compact, highly powerful systems.

The EmbeddedATX motherboard standard used for this new board, as well as the other EmbATX boards from Micro Industries, provides long-term stability and support in high-performance applications. The mTG855 board can be used to upgrade existing EmbATX systems. In addition, this new motherboard is compatible with all of the Micro Industries Touch&Go™ interactive point-of-sale and service/point-of contact (POS/POC) systems announced today at the Retail Systems 2003 show in Chicago, Ill. (<http://www.microindustries.com/about/pr061003ret.html>).

“Micro Industries is one of the first companies to offer an EmbeddedATX motherboard based on the Intel Pentium M processor and 855GM chipset,” said Ton Steenman, general manager, Embedded Intel Architecture Division. This new board delivers superior performance and powerful graphics capability that is ideal for a wide variety of applications, including interactive client applications.”

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“We are offering our customers an EmbeddedATX-based motherboard that can satisfy their requirements — now and well into the future — for running high performance, low power, applications,” said Michael Curran, president of Micro Industries. “The new mTG855 can support current and emerging applications in the retail, medical, transportation, and industrial markets.”

### **Micro Industries' mTG855 Features and Benefits:**

- **Intel Pentium M Processor:** Using an innovative caching system, the Intel Pentium M processor retrieves information extremely efficiently. This enables the mTG855 motherboard to deliver high performance for very fast video loads and instant responses in interactive client applications.
- **The Intel 855GM Chipset:** The 855GM chipset speeds up graphics retrieval, which delivers the integrated high performance needed for 3D graphics. At the same time it automatically powers down the processor system bus or memory when possible to save power more evenly. Lower power usage means minimum heat dissipation, a very important issue for systems that have to operate in confined spaces.
- **The EmbATX Form Factor:** This form factor provides a flexible input/output (I/O) interface via a 9.60-inch x 9.60-inch rear I/O panel and stackable connectors. It also provides a flexible format for front panel I/O connections that does not interfere with expansion.
- **The Combination of the 855GM Chipset and the Intel Pentium M Processor:** This combination provides exceptional memory speed, up to two gigabytes (GB), 266/200 SDRAM, and a 400 MHz system bus for a high bandwidth connection between the processor and platform.
- **A Wide Variety of I/O Options:** The 855GM chipset has integrated graphics capabilities, as well as LVDS, SVGA, and dual Digital Video Out (DVO) interfaces that can be used with independent or dual displays. Other I/O interfaces include a 10/100/1000 Ethernet port, six USB 2.0 ports (four on the I/O panel and two headers on board), two serial ports, a parallel port, and AC'97 sound. A PCI slot is provided for expansion and additional optional items include a CompactFlash connector for data storage or O/S operation, or a CardBus for wireless LAN networking or the addition of a modem card. This range of options makes the motherboard very adaptable for a wide variety of I/O intensive applications.
- **Compatibility with Micro Industries Touch&Go Interactive POS/POC Systems:** The mTG855 can be integrated into all of the configurable interactive systems that need high performance, low power, and wireless capability.

## **Availability and Price**

The mTG855 is available immediately in the United States and Europe. Volume OEM pricing for products with the Pentium M processor start at \$695.00 (U.S.) for Pentium M 1.10 GHz, \$750.00 (U.S.) for the 1.3 GHz, and \$895.00 (U.S.) for the 1.6 GHz. Smaller quantities are available at higher prices. Prices are subject to change without notice. Products can be ordered by calling the Micro Industries Customer Service Department at 800-722-1842.

## **About Micro Industries**

For more than 25 years, Micro Industries Corporation has provided electronic engineering and manufacturing services to OEMs, helping them translate their product requirements into cost-effective products for embedded and integrated computer systems in the medical, office and industrial automation, transportation, and retail markets. Micro Industries manufactures its Touch&Go computer systems and motherboards in two facilities in the Columbus, Ohio area, with a management system registered to ISO 9001:1994 and ISO 14000:1996. Micro Industries is an Affiliate Member of the Intel Communications Alliance, a community of communications and embedded developers and solution providers. For more information, please visit <http://intel.com/go/ica>. In addition, Micro Industries partners with media content developers and software developers to provide premium interactive kiosk and POS/POC systems to the retail market. For more information about Micro Industries and partnering opportunities, visit [www.microindustries.com](http://www.microindustries.com).

**Micro Industries Corporation**  
**mTG855: ATX Motherboard with the Intel® Pentium® M Processor**  
**Complete List of Product Features**

<b>Form Factor</b>	EmbATX (9.60" x 9.60")
<b>Processor</b>	Intel® Pentium® M
<b>Chipset</b>	Intel 855GM chipset, consisting of: <ul style="list-style-type: none"> <li>• Intel 82801DB (ICH4) I/O Controller Hub</li> <li>• Intel 82802AB 4 Mbit Firmware Hub</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Two 184-pin dual inline memory module (DIMM) sockets,</li> <li>• DDR 200w/ECC,</li> <li>• DDR 266</li> </ul> Support for up to 2 GB of DDR SDRAM
<b>Ethernet Controllers</b>	Intel 82551QM site (optional upgrade to 82540EM) <ul style="list-style-type: none"> <li>• PCI 10BASE-T / 100Base-TX interface /1G bit</li> <li>• RJ-45 Interface</li> </ul>
<b>Sound</b>	SigmaTel® AC'97 sound chip <ul style="list-style-type: none"> <li>• Line in/Line out/Speaker out/Mic in</li> <li>• AC'97 sound with amplified output and Microphone input</li> </ul>
<b>Video</b>	855 Chipset Internal Graphics <ul style="list-style-type: none"> <li>• 3D graphics engine</li> <li>• Dedicated Local Flat Panel support</li> <li>• Single or dual channel LVDS</li> <li>• Two digital video out (DVO) ports</li> <li>• SVGA port</li> </ul>
<b>Hardware Monitor</b>	Philips® NE1619 HECETA System Hardware Monitor <ul style="list-style-type: none"> <li>• Voltage inputs</li> <li>• Temperature monitor</li> </ul> Comparison of all monitored values to defined limits
<b>I/O Controller</b>	National Semiconductor® PC87373 LPC Super I/O Controller
<b>Peripheral Interfaces</b>	<ul style="list-style-type: none"> <li>• Two 16550 serial ports (RS-232)</li> <li>• PS/2 keyboard/mouse</li> <li>• Bi-directional parallel port</li> <li>• Six USB 2.0/1.1 ports</li> <li>• PCI connector for peripheral expansion</li> <li>• (Optional) CompactFlash site for flash expansion or dual CardBus site</li> </ul>
<b>Additional Features</b>	<ul style="list-style-type: none"> <li>• EIDE primary connector (2.5 mm notebook or 44-pin standard connectors)</li> <li>• EIDE secondary connector (CompactFlash) 3.3 volt SMBus header</li> <li>• CPU fan connector</li> <li>• Two chassis fan connectors</li> <li>• Real-time clock with battery backup</li> <li>• Advanced Power Management (APM)BIOS</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>• 4 Mbit 82802AB Flash memory hub</li> <li>• APM, and Plug and Play</li> <li>• Flash reprogramming and Crisis Recovery utilities</li> </ul>