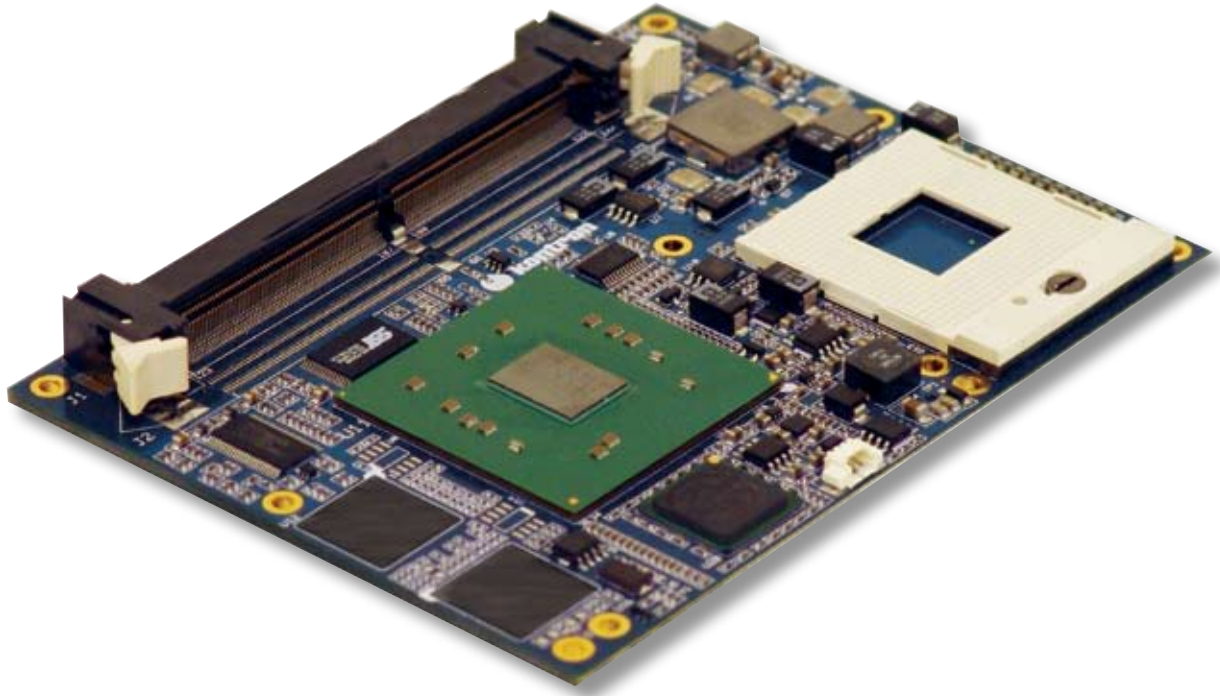


# ▶ ETXexpress-WPM



MEMBER  
OF THE  
YEAR  
2006

**ETX**express®  
a COM Express solution

**COM** ★  
**Express**



## ▶ Highest I/O Bandwidth on ETXexpress

- ▶ Intel® Pentium® M (up to 2.0GHz) and Celeron® processors
- ▶ Up to 12 PCI Express Lanes
- ▶ 3x Ethernet on board (2x GigE, 1x 10/100)

## ➤ Product Overview

The Kontron ETXexpress-WPM is based on the Intel® Pentium® M processor (up to 2.0GHz) and the Intel 3100 chipset enabling it to deliver the highest I/O bandwidth currently available on a computer-on-module. The Kontron ETXexpress-WPM supports up to 2GB of system memory (1x right angle 244-pin mini-DIMM). For systems that require up to 4GB of memory, a 2x vertical mini-DIMM socket module option is available. The Kontron ETXexpress-WPM has 12 PCI Express lanes along with a PCI 2.1, 32 bit interface. For fast communications, two of the PCI Express lanes defined by the Intel 3100 chipset are used for dual Gigabit Ethernet support. 10/100Base-Tx Ethernet also is available, opening up a total of three Ethernet connections for the application. 4x Serial ATA ports (Type I) are included in the module's design along with 4x USB 2.0 ports.

All Kontron ETXexpress COMs provide PCI Express, PCI 32, SUB and SerialATA which maintain the same physical positions on each module. This guarantees scalability between modules. An Advanced Configuration and Power Interface (ACPI) for optimized power management is standard on all Kontron ETXexpress modules.

Kontron's ETXexpress family of Computer-On-Modules (COMs) are fully compliant with the PCI Industrial Computer Manufacturer's Group (PICMG) COM Express Specification. The ETXexpress format represents a more cost effective replacement to time and resource consuming full custom designs. Time to market is dramatically reduced and future upgrades are as simple as choosing a new ETXexpress CPU module. Therefore, the total cost of ownership of the end design is improved as well.

## ➤ Technical Information

<b>Processor:</b>	Intel® Pentium® M processor up to 2.0GHz Intel® Celeron® processor
<b>Chipset</b>	Intel® 3100 chipset
<b>Memory</b>	Up to 2x 2048MB mini-DIMM (2x 244-pin)
<b>Hard Disk</b>	4x SerialATA (Type I)
<b>USB</b>	4x USB 2.0
<b>PCI Express</b>	12x PCI Express lanes
<b>PCI</b>	PCI 2.1, 32 bit/33MHz
<b>Ethernet</b>	1x 10/100Base-T (Intel® 82551ER) 2x Gigabit Ethernet (Intel® Tekhwa PC82573L)

<b>Other Features</b>	4x GPIO, I2C Bus, SMBus, LPC, 2x Serial (1x TTL, 1x RS232), Watchdog Timer, Express card support, 20-pin ITP port for Debugging, ACPI 1.0
<b>COM Express (by PICMG) Pin-out Type</b>	Type 3
<b>Power Consumption</b>	60W @ 12V, 2.0GHz CPU
<b>Dimensions</b>	95 x 125 mm
<b>Temperature</b>	Operation: 0° to 60°C Storage: -10° to 85°C
<b>Humidity</b>	Operation: 10% to 90°C Storage: 5% to 95% (non condensing)

## ➤ Ordering Information

Article	Part.-No.	Description
ETXexpress-WPM-800, Zero Cache	38005-0000-08-3	ETXexpress-WPM w/ 800MHz Intel® Celeron® M processor (BGA), 0KB L2
ETXexpress-WPM 370	38005-0000-15-1	ETXexpress-WPM w/ 1.5GHz Intel® Celeron® M processor (BGA)
ETXexpress-WPM 760	38005-0000-20-0	ETXexpress-WPM w/ 2.0GHz Intel® Pentium® M processor (PGA)

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