

PERFORM BEYOND LIMITS

The next generation Module

The concept:

our **standardized embedded Module**, ETXexpress provides the needed standard functionality while the necessary custom features are integrated into the baseboard design.

This separation allows for **high flexibility** in the mechanics of the baseboard since it is a custom made part, but keeps the **flexibility to change** within the module family. Total design time for the baseboard is very short compared to a full custom design cycle. This **keeps the costs down** and ensures **short time-to-market**. Products based on embedded modules are **highly scalable** and **last longer** than the alternative.

Focus on your own application, we supply the ready-to-use CPU module.

CUT DOWN COST



Advantages of the modules at a glance:

- The next generation board for your next generation product
- Express time to market
- Reduced risk via lowered project complexity
- The new open standard
- Scalable due to interchangeable modules
- Longevity
- Lead-free future provided
- Ultra performance



CUT DOWN TIME

Application Fields:

- Gaming Entertainment
- Medical Equipment
- Storage
- Communications
- Industrial Automation
- Test and Measurement
- Retail and Advertising
- Consumer
- Government
- Transport

You can! rely on

Yes

- Please send me a detailed technical datasheet of
- ETXexpress-PM
 - ETXexpress-Starterkit
 - ETX
 - or the complete catalogue of Kontron.

Yes

- I'm interested in a **customised baseboard**.
- Please call me!** I have a question.
- Please call me to **organize a meeting**.

Yes

- Please send me your **email newsletter**.

My address is:

Firm

Last Name

First Name

Position

Street

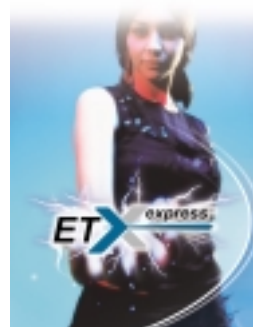
Post Code, city

Country

Tel.

Fax

E-Mail



International Free Fax!

Fax back to 00800 1 2 4 8 16 32

or www.kontron.com/reply/08

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... always a Jump ahead!

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powered by
Intel® Pentium® M

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If it's Embedded, it's Kontron

The new Standard!

ETXexpress™ is the Module concept of the new open Standard COM Express (by PICMG). The module offers complete multimedia capable computing cores for applications at high levels with high performance for your next generation product.

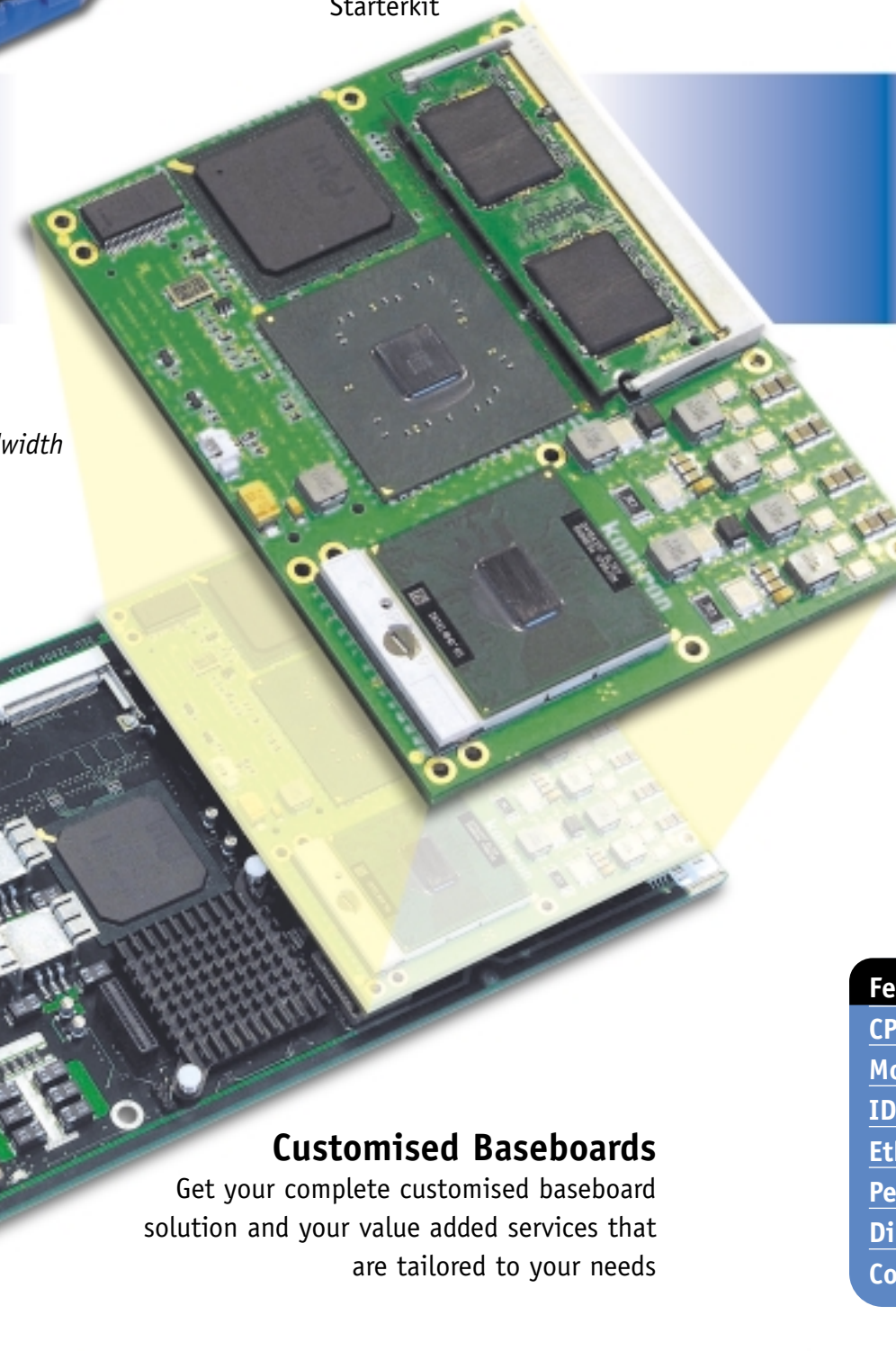
The modules are highly integrated off-the-shelf building blocks based on PCI Express Bus architecture that plug into custom made, Application-specific carrier boards.

ETXexpress™ – the standard of the inventor.



Starterkit

- ▶ Complete Starterkit for immediate evaluation purposes
- ▶ Includes all required hard-/software components for a quick start
- ▶ Choose your Module for the Starterkit



PERFORM - BEYOND LIMITS!

Ultra performance with latest interface technologies

- ▶ **PCI-Express** - the elemental datapath
- ▶ **Gigabit Ethernet** - for high connectivity
- ▶ **SerialATA** - for highspeed mass storage
- ▶ **ACPI** - optimized powermanagement
- ▶ **USB 2.0** - for fast peripherals
- ▶ **Dual Channel DDR2** - for maximum memory bandwidth
- ▶ **ExpressCard™** - for hot-pluggable I/O cards
- ▶ **Dual Channel LVDS** - for high resolution
- ▶ **SDVO** - for maximum display flexibility
- ▶ **Audio** - Intel® High Definition Audio



Customised Baseboards

Get your complete customised baseboard solution and your value added services that are tailored to your needs

Technical Information

Features	ETXexpress-PM
CPU supported	up to Intel® Pentium® M™ 760 processor
Chipset	915GM & ICH 6
DDR2	up to 2 Gigabyte
Hard Disk	4 x Serial ATA, 1 x Parallel ATA
USB	8 x USB 2.0 Ports
PCI-Express	4 PCI-Express x1 Lane PCI-Express Graphics x 16 Lanes
PCI 32	PCI 2.3, 32 Bit 66 MHz
Ethernet	10/100 MBit Ethernet will be upgradet to Gigabit Ethernet
Sound	Intel® High Definition Audio
Video Controller	Integrated Intel® Graphics Media Accelerator (GMA 900 or extended PCI-Express Graphics
Resolutions	up to QSXGA
CRT and LCD	2560 x 2048, 32 Bit
LCD	Dual Channel LVDS
Panel Support	110 MHz
TV out	Serial Digital Video out
Common Features	E²PROM BIOS Setup, LAN Boot, JRC support, RTC, Watchdog, JIDA Support, I²C Bus (only ext. slaves)
Power Management	ACPI
Power Consumption	30 Watt @ 12V

In comparison

New technologies require new designs and ETXexpress, therefore, expands our embedded modules family. Decide by yourself which module concept meets your requirements best. See this in comparison of ETX and ETXexpress as a reference:

Features	ETX	ETXexpress
CPU supported	up to Intel® Pentium® M™	Intel® Pentium® M™
Module-Bus	PCI, AGP	PCI, PCI-Express
IDE-Interface	UDMA	SerialATA
Ethernet	up to 100MBit	up to 1000MBit
Peripherals	Printer, USB 1.1, Serial	USB 2.0
Dimensions	95 x 114 mm	95 x 125 mm
Consumption	5W - 30W @ 5V	30W - 40W @ 12V