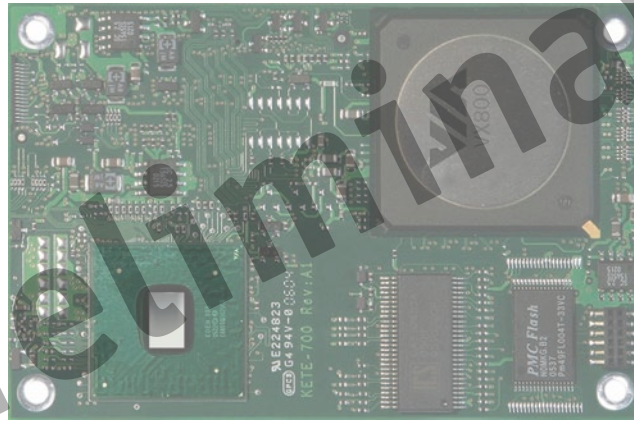


▶ nanoETXexpress-VX8

Performance
High



(original size)

Size
Small

Power
Low



- ▶ Low Power Platform VIA processor, VIA VX800
- ▶ COM Express™ compatible module size nano
- ▶ Based on COM Express™ Pin Out Type 1
- ▶ 2x SerialATA, for highspeed drives
- ▶ Long-term replacement for existing small form factors
- ▶ Form factor 55mm x 84mm

➤ Product Overview

The nanoETXexpress specification, a form factor driven by Kontron, is targeted to deliver extremely power-saving COMs with mid to high performance x86 technology on a footprint that is a mere 55 mm x 84 mm. This is 39 percent of the original COM Express module Basic form factor 125 x 95 mm footprint and 51 percent of microETXexpress (95mm x 95mm). This new COM form factor is compatible with COM Express module size nano from PICMG and is based on COM.0 Type 1 connector. The locations of the identically mapped pin-outs are also 100 percent COM.0 compatible. The nanoETXexpress-VX8 will support 1 PCI express x 1 Lane, 1 x 4 Lanes. Ethernet 10/100/1000 Gbit on board for high connectivity and 6 x USB 2.0

provides fast and sufficient interfaces for external peripherals. nanoETXexpress-VX8 also provides the following interfaces that are always located in the same physical position on each board, thus guaranteeing scalability between modules: PCIexpress, 2 x serial ATA, LVDS, High definition Audio. nanoETXexpress specification, the smallest possible form factor with PCIe based COMs will support many new applications include hand-held units for medical, mobile data solutions and other emerging applications that have not been possible as of yet due to size restrictions. All above mentioned requirements are supported by nanoETXexpress - small power - low size - high performance.

➤ Technical Information

Processor	VIA Low Power processor, nanoBGA2r
Chipset	VIA VX800 400/800 MHz FSB
Cache	128Kb / 128KB L1/L2
DRAM	up to 1GByte (DDR2-RAM) on Board
SATA	2 Serial ATA supporting 1,5 GBit/s and 3,0 GBit/s
USB	6x USB 2.0
Memory	Memory down up to 1GB DDR2 400/533/667
PCI Express	1 PCI Express x1 Lanes, 1 x4
Ethernet	10/100/1000 Gbit
Sound	HD Audio

Video Controller	Integrated Chrome 9™ HC3 IGP graphic Decoder for MPEG2(HD)/4/WMV9/ DivX/H.264 acceleration, DuoView+™
Graphics Memory	up to 256MB, UMA
CRT and LVDS Resolutions	Dual Channel LVDS 18/24 Bit
Other Features	Wake on Lan, Watch Dog, JIDA32
Operating Systems	Windows XP, XPe, CE, Linux, VxWorks
Dimensions	55mm x 84mm
Power Consumption	(board) aspire 5W) @12V (4,75V – 14V wide range)
Temperature (*)	operation: 0° to 60°C, storage: -10° to 85°C
Humidity	operation: 10% to 90%, storage: 5% to 95% (non condensing)

(*) Ask about wider temperature ranges

➤ Ordering Information

Article	Part.-No.	Description
nanoETXexpress-VX8	tbd	VIA Low Power Processor and VX800

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