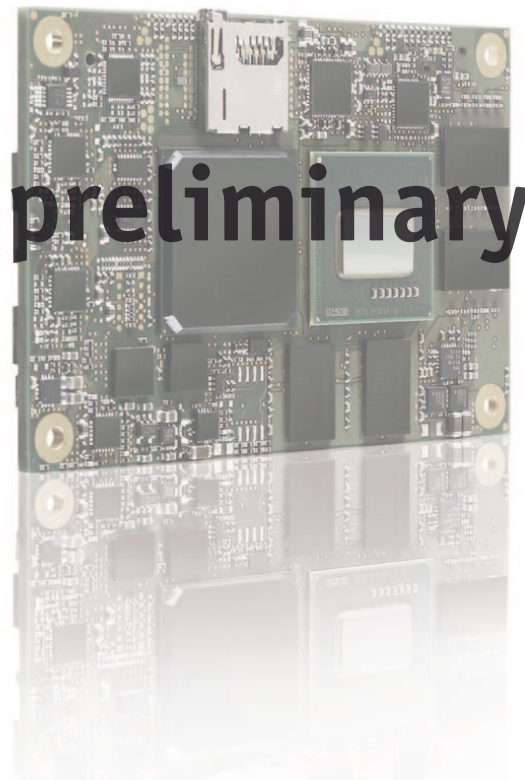


» nanoETXexpress-TT «



COM Express™ compatible ultra Computer-on-Module designed for industrial temperature use

- » COM Express™ COM.0 R 2.0 pin-out Type 10 compatible
- » Designed for Industrial temperature range -40°C to +85°C (E2)
- » Intel® Atom™ processor E6xx @ 600 MHz up to 1.6 GHz
- » Intel® Platform Controller Hub EG20

The nanoETXexpress COM family gains 4 new members broadening the scalability from 600MHz to 1.6GHz and throughout the industrial-grade temperature range. The COM Express™ module in the ultra format (55mm x 84 mm) featuring an Intel® Atom™ processor E6xx and is designed according to the new PICMG COM Express™ COM.0 R.2.0 pin-out Type 10

specification. The nanoETXexpress-TT family is designed with industrial-grade components that are fully functional even at the extended temperature range (E2) from -40 to +85°C. With its memory onboard, a robust micro-SD Card socket or optional a SATA Flash memory, it is ideal for use in harsh environments and thus complements the existing portfolio perfectly.

Technical Information

Processor	Intel® Atom™ E6xx (0.6 GHz + 1.1 GHz + 1.3 GHz + 1.6 GHz)
Cache	32 KB Instruction Cache + 24 KB L1 Cache, 512 KB L2 Cache
Chipset	Intel® Platform Controller Hub EG20
Memory	onboard up to 2 GB DDR2-800
Hard Disk	Option 1: 2 x Serial ATA external supporting 3GB/s plus 1 x micro SD card Slot on SDIO Option 2: 1 x Serial ATA external supporting 3GB/s + 1 x Serial ATA SSD Flash (planned when SATA flash is available in E2)
Flash Disk	on Board E2 SSD Flash drive up to 8GByte, planned option when Sata flash memory is available in E2
USB	6 x USB 2.0 (boot) + 1x USB Client
PCI Express	4x PCI Express x1 Lanes, one for onboard PCH EG20
Serial	2 x serial interface TTL
Ethernet	OnBoard10/100/1000 Mbit LAN, MAC Chipset integrated
Ethernet Controller	Broadcom BCM54610, Phy
Audio Controller	Intel® High Definition Audio
Graphics Controller	Integrated 2D/3D Graphics Engine, Gfx Core 333/400 Mhz, shared VRAM
Graphics Memory	up to 352MB
Interface	4Bit SDIO 2.0 interface shared with GPIO on COM Express™ Connector
Resolution	LVDS 18/24bit 1280x768@60Hz; SDVO 1920x1080@50Hz
Operating System	Windows® XP SP3, XPe, WES 7, CE, Linux, VxWorks, QNX
Dimensions (H x W x D)	55mm x 84mm
Power Consumption	estimated typ. Idle 3W@12V
Power Supply	4.75V – 14V Wide Range Power Supply (optional 5V stand-by for ATX function)
Power Management	ACPI 3.0
Temperature	Operation: -40°C to +85°C (E2), Storage: -30° to 85°C
Humidity	Operation: 10% to 90%, Storage: 5% to 95% (non condensing)
Compliance	COM Express™ COM.0 R2.0 Type 10
SM Bus Support	yes

Ordering Information

Article	Part-No.	Description
nanoETXexpress-TT 0.6 GHz 512/mSD	34003-5100-06-1	nanoETXexpress-TT w/ Atom™ E620T (0.6 GHz), 512MB DDR2 onboard, PCIe, SATA, Ethernet, micro SD slot
nanoETXexpress-TT 1.0 GHz 512/mSD	34003-5100-10-1	nanoETXexpress-TT w/ Atom™ E640T (1.0 GHz), 512MB DDR2 onboard, PCIe, SATA, Ethernet, micro SD slot
nanoETXexpress-TT 1.3 GHz 512/mSD	34003-5100-13-1	nanoETXexpress-TT w/ Atom™ E660T (1.3 GHz), 512MB DDR2 onboard, PCIe, SATA, Ethernet, micro SD slot
nanoETXexpress-TT 1.6 GHz 1GB/mSD	34003-1000-16-1	nanoETXexpress-TT w/ Atom™ E680T (1.6 GHz), 1GB DDR2 onboard, PCIe, SATA, Ethernet, micro SD slot

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