

# » ETXexpress<sup>®</sup>-CD «



**COM**   
**Express**

Up to Intel<sup>®</sup> Core<sup>™</sup> Duo processor

- » Up to 4 GB DDR2 memory
- » 2x SerialATA, 8x USB 2.0
- » Up to 4 PCI Express x1 and PEG x16
- » Gigabit Ethernet for high connectivity

ETXexpress® is the Module concept of the new open Standard COM Express (by PICMG®). The new ETXexpress®-CD module is based on up to the Intel® Core™ Duo processor as well as the Intel® 945GME chipset. PCI Express is the primary data path for upcoming x86 based systems. Non PCIExpress components such as PCI plug-in cards can still be supported with the PCI 2.1 32 Bit Interface.

The ETXexpress®-CD will support 4 PCI Express x1, PEG x16 lanes. Gigabit Ethernet for high connectivity and 8x USB 2.0 provides fast and sufficient interfaces for external peripherals. ETXexpress® COM modules also will provide interfaces that are always located in the same physical position on each board, thus guaranteeing scalability between modules. Six mounting holes on the board provide increased shock and vibration resistance.

## Technical Information

<b>Processor</b>	Up to Intel® Core™ Duo processor up to 1,66 GHz Intel® Celeron® M 1.06 GHz and 1.86 GHz
<b>Chipset</b>	Intel® 945GME, ICH7M-DH
<b>Hard Disk</b>	2x SerialATA (AHCI/RAID 0,1), 1x PATA
<b>USB</b>	8x USB 2.0 ports
<b>Memory</b>	Physical memory up to 4 GB (533/667) DDR2 SODIMM by dual channel memory support
<b>PCI Express</b>	4 PCI Express x1 (1 PCI Express x4 possible); 1 PEG x16
<b>PCI</b>	PCI 2.3, 32 bit / 33 MHz PCI bus
<b>Ethernet</b>	10/100/1000 MBit Ethernet, Realtek RTL8111C
<b>Video Controller</b>	Integrated with Intel® Graphics Media Accelerator (GMA950) with DirectX® 9.0/SM3.0 and DVM 3.0 support; Dual SDVO multiplexed with PEG
<b>Sound</b>	Intel® High Definition Audio / AC 97
<b>CRT and LVDS Resolutions</b>	CRT up to 2048 x 1536, LVDS up to 1600 x 1200, ( JILI3 / EDID support)
<b>LCD Panel Support</b>	Single and Dual Channel LVDS 18/24 bit
<b>TV out / HDTV Resolution</b>	TV output. Component , S-Video or composite HDTV support (480p/720p/1080i/1080p)
<b>Other Features</b>	LPC, JIDA Support, WakeOnLAN, Watchdog, I²C Bus, RTC, 8 GPIO, LAN Boot, JRC support, Suspend states (S0/S3/S4/S5), ACPI
<b>Form Factor / Pin-out Type</b>	95 x 125mm / Fully COM Express™ Type 2 compliant
<b>Power Consumption</b>	typ. Idle 11W @ Intel® Core™ Duo processor L2400LV 8,5 V – 18 V Wide Range Power Supply
<b>Temperature</b>	Operation: 0°C to 60°C (-25° to 75°C available) Storage: -30° to 85 °C
<b>Humidity</b>	Operation: 10% to 90% Storage: 5% to 95% (non condensing)

## Ordering Information

Article	Part-No.	Description
<b>ETXexpress®-CD Dual Channel</b>	38003-0000-11-4	Intel® Celeron® M ULV 423 (1.06GHz, 533FSB, 1MB L2), up to 4GB DDR2
<b>ETXexpress®-CD Dual Channel</b>	38003-0000-17-5	Intel® Core™ Duo L2400 LV (1.66GHz, 667FSB, 2MB L2), up to 4GB DDR2
<b>ETXexpress®-CD Dual Channel</b>	38003-0000-19-4	Intel® Celeron® M 440 (1.86GHz, 533FSB, 1MB L2), up to 4GB DDR2
<b>HSP-ETXexpress®-CD threaded</b>	38003-0000-99-0	Heatspreader for ETXexpress®-CD with soldered processor, threaded stand off
<b>HSP-ETXexpress®-CD through</b>	38003-0000-99-1	Heatspreader for ETXexpress®-CD with socketed processor, through hole stand off
<b>HSK-ETXexpress®-CD, w/ Fan</b>	38003-0000-99-0C01	Heatsink with fan, threaded 2,5mm stand off, soldered CPU (BGA)
<b>HSK-ETXexpress®-CD, w/o Fan</b>	38003-0000-99-0C02	Heatsink without fan, threaded 2,5mm stand off, soldered CPU (BGA)

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