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kontron

» ETXexpress®-MC «



COM Express

Performance COM Express™ module

» Intel® Core™2 Duo (up to 2.2GHz) Processors
» Up to 4GB DDR2 memory, dual channel
» 5x PCI Express, 8x USB 2.0 and 3x SerialATA 300
» Wide Input Supply Support - 8.5V-18V
» Onboard TPM 1.2

Built around the Intel® Core™ 2 Duo processor (4MB L2, 800FSB) and Intel® GME 965 chipset, the Kontron ETXexpress®-MC is a performance COM Express™ module. The Kontron ETXexpress®-MC offers support for fourth-generation graphics architecture to meet the requirements of embedded applications that require advanced video capabilities.

The inclusion ofonboard TPM 1.2 ensures that the Kontron ETXexpress-MC® is a perfect fit for power and thermal sensitive designs. This guarantees scalability between modules. An Advanced Configuration and Power Interface (ACPI) for optimized power management is standard on all Kontron COM Express™ modules.

Technical Information

Processor	Intel® Core™2 Duo processors up to 2.2 GHz, Intel® Celeron® processors up to 2.0 GHz
Chipset	Mobile Intel® GME 965 Express chipset
Memory	Up to 4 GB DDR2 SO-DIMM (533/667) dual channel
Hard Disk	3x SerialATA 300 (AHCI; RAID 0,1), 1x PATA
USB	8x USB 2.0
PCI Express	5 PCI Express x1 (1 PCIe x4 possible), 1 PEG x16
PCI	PCI 2.1, 32 bit/33MHz
Ethernet	10/100/1000 MBit Ethernet, Intel® 82566MM
Sound	Intel® High Definition Audio
Video Controller	Integrated in Intel® GME 965 chipset with Intel® GMA X3100 graphics technology with DirectX® 9.0/SM3.0 and DVMT 4.0 support; SDVO multiplexed with PEG
CRT and LVDS Resolutions	CRT up to 2048 x 1536, LVDS up to UXGA (1600 x 1200), JILI/ EDID support)
LVDS Panel Support	Single and Dual Channel LVDS 18/24 bit
TV out / HDTV Resolution	TV output. Component, S-Video or composite HDTV support (480i/480p/720p/1080i/1080p)
Other Features	LPC, JIDA Support, WakeOnLAN, Watchdog, 8 GPIO, I²C Bus, RTC, LAN Boot, JRC support, Suspend states (S0/S1/S3/S4/S5)
Form Factor / Pin-out Type	COM Express™ Basic: 125 x 95 mm / Pin-out Type 2
Power Consumption	typ. Idle 11W @ Intel® Core™ Duo processor L2400LV 8,5 V – 18 V Wide Range Power Supply
Temperature (*)	Operation: 0°C to 60°C Storage: -30° to 85 °C
Humidity	Operation: 10% to 90% Storage: 5% to 95% (non condensing)

(*) Ask about extended temperature ranges

Ordering Information

Article	Part-No.	Description
ETXexpress®-MC T7500	38006-0000-22-2	Intel® Core™2 Duo T7500 (2x2.2GHz BGA ,800MHz FSB, 4MB cache 65nm)
ETXexpress®-MC L7500	38006-0000-16-2	Intel® Core™2 Duo L7500 (2x1.6GHz BGA, 800MHz FSB, 4MB cache 65nm)
ETXexpress®-MC 550	38006-0000-21-1	Intel® Celeron® M 550 (2.0GHz BGA, 533MHz FSB, 1MB cache, 65nm)
HSP-ETXexpress®-MC threaded	38006-0000-99-0	Heatspreader for ETXexpress®-MC, threaded 2,5mm stand off
HSP-ETXexpress®-MC through	38006-0000-99-1	Heatspreader for ETXexpress®-MC, through 2,7mm hole stand off
HSK-ETXexpress®-MC w/o Fan	38006-0000-99-0C02	Heatsink for ETXexpress®-MC, w/o Fan (height w/ spacer 25mm), threaded 2,5mm stand off
HSK-ETXexpress®-MC w/ Fan	38006-0000-99-0C01	Heatsink for ETXexpress®-MC, w/ Fan (height w/ spacer 25mm), threaded 2,5mm stand off

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Embedded and Communications Alliance Premier

#ETXexpress-MC# 0713200 9PDL
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