

Kontron KTQ77 / Flex  
**FLEX-ATM Motherboard**



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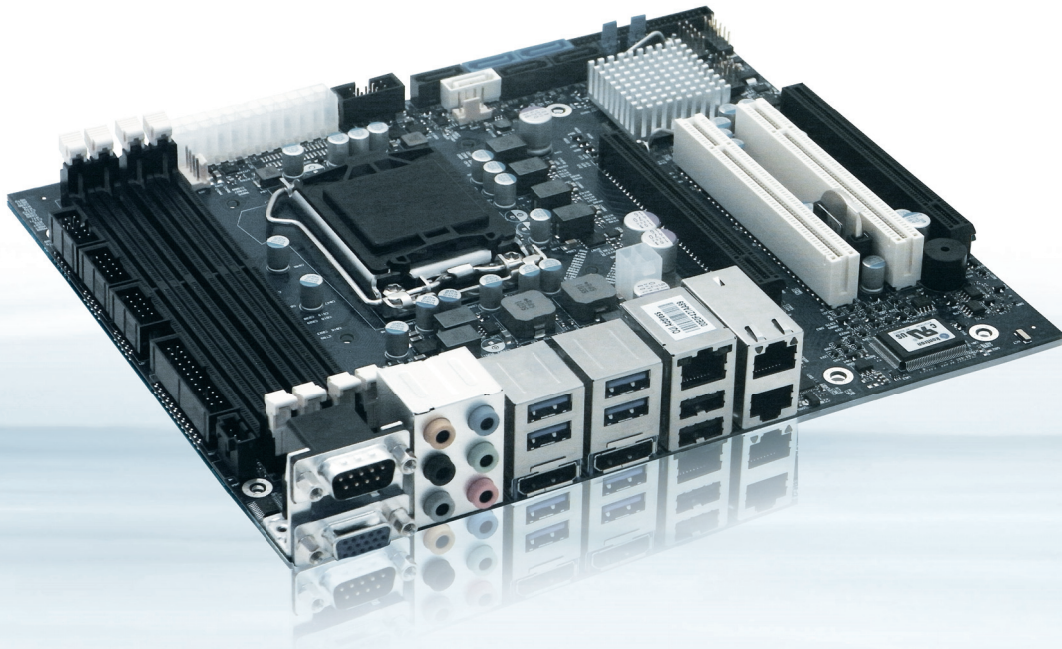
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# KTQ77/FLEX Motherboard

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## FLEX ATX MOTHERBOARD WITH 3rd GENERATION Intel® I7-, I5-, I3 2 Core™ AND 4 Core™ CPUs & Intel® Q77 CHIPSET

- ▶ long term available embedded FLEX-ATX motherboard
- ▶ high CPU and graphics performance for 3 independent displays
- ▶ 2x Display Port for flexible, high resolution display drive
- ▶ Up to 32 GByte DDR3 RAM
- ▶ 4x USB 3.0, 10x USB 2.0, 6x SATA (incl. 2x SATA III)

POSSIBILITIES START HERE



# KTQ77/Flex Motherboard

3rd GENERATION Intel® i7-, i5, -i3 2 Core™ AND 4 Core™ CPUs & Intel® Q77 CHIPSET

## Typical Applications

- **Digital Signage:** High graphics performance & multi display support
- **Gaming/POS/POI:** High graphics and high CPU performance
- **Medical:** High Graphics performance & longevity
- **Industrial Automation:** wide range of I/Os & longevity
- **Future-oriented Devices** due to Display Port and mSATA/ compact SSD support



Rear I/Os

## ► TECHNICAL INFORMATION

FEATURES	KTQ77 FLEX Motherboards
CPU	Intel® Core i7/i5/i3
CPU CLOCK	Up to 3.8 GHz
FRONT SIDE BUS	DMI 2.0 support; Four lanes in each direction; Up to 20 Gbits each direction, full duplex. DMI interface to PCH is supported
CHIPSET	Intel® Q77
DRAM	Up to 8 GByte DDR3 x4 (max. 32 GByte), 1067/1333/1600 MHz support (Dependent on the used processor unit)
GRAPHICS CONTROLLER	integrated into CPU
SATA	6x SATA interfaces (4x SATA150/300 and 2x SATA600) w. RAID 0/1/5/10
USB	4x USB 3.0, 10x USB 2.0
ETHERNET	3x GbE LAN, one LAN controller supporting Intel® AMT 8.0
FORM FACTOR	Flex: 22,86 cm x 19,05 cm (9" x 7,5")
AVAILABLE I/OS	PCIe 3.0, 2x PCI 32 bits/33 MHz (on FLEX), 1x Mini-PCIe, 1x mSATA, 4x COM, Internal PS2 Mouse/Keyboard connector 1x PCIe x4, 1x PCIe x16
GRAPHIC INTERFACE	2x Display port, 1x CRT
AUDIO	High Definition Audio Codec using the VIA 1708B codec
REAR I/O	DB9 serial port, DB15 VGA, Audio stacked 2x3 mini Jack tower, 6x USB, 2x Display port, 3x RJ45 LAN
TEMPERATURE	Operating 0 °C - 60 °C (32 °F - 140 °F)
SPECIAL FEATURE	Multi purpose HDD RAID 0,1,5,10 Support, GPIO, LPT, AMT 8.0, TPM 1.2 support, KT embedded feature connector with ADC, DAC up to 160 GPIO, up to 3 independent displays supported
ADDITIONAL	Up to 7 years availability

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