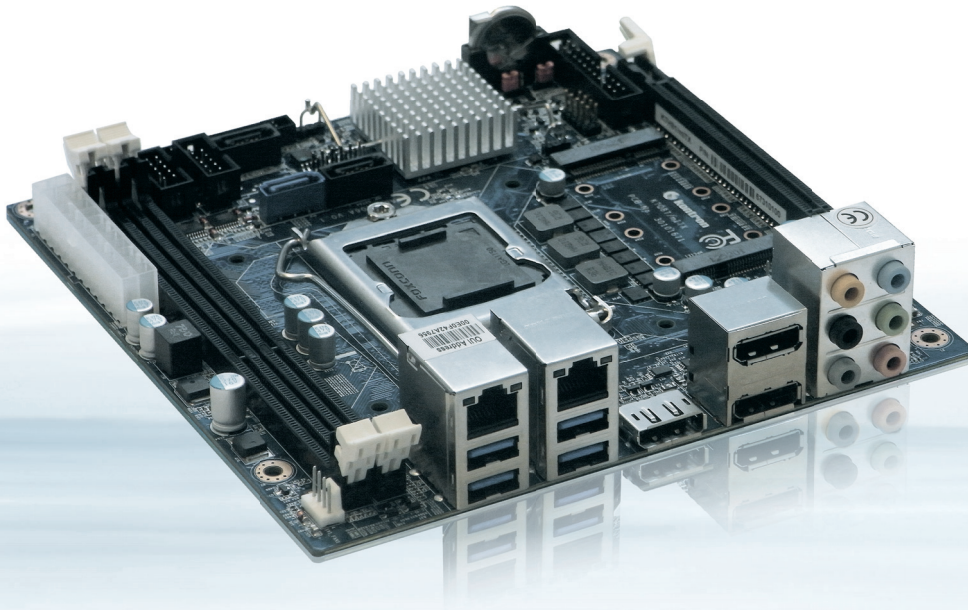


# KTH81/mITX

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## EMBEDDED Mini-ITX MOTHERBOARD WITH Intel® H81 CHIPSET AND 4th GEN Intel® I7/I5/I3 DUAL AND QUAD CORE CPUS

- ▶ 4th Generation Intel® 22nm Dual and Quad Core i7, i5, i3, Pentium & Celeron® CPUs with Intel® H81 Lynx Point PCH
- ▶ long term available Embedded mITX motherboard
- ▶ high performance CPU, graphics, and media performance supporting 2 independent displays pipes
- ▶ graphics APIs DirectX 11.1, OpenGL 4.x, OpenCL 1.2

POSSIBILITIES START HERE



# KTH81/mITX

- ▶ **Gaming/POS/POI:** High graphics and CPU performance, multi display support
- ▶ **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

## ▶ TECHNICAL INFORMATION

<b>FEATURES</b>	KTH81 mITX Desktop Motherboards
<b>FORM FACTOR</b>	170 x 170 mm (6.7" x 6.7")
<b>CPU</b>	Intel® Core i7/i5/i3 2C/4C CPU clock up to 3.1 GHz
<b>GRAPHICS</b>	Integrated into CPU with GT1 or GT2 depending on CPU type
<b>GRAPHIC INTERFACE</b>	2x Display Port revision 1.2 in Rear IO
<b>MEMORY</b>	2x up to 8 GByte DDR3L/DDR3 (max. 16 GByte), PC3-10600/PC3-12800 support
<b>CHIPSET</b>	Intel® Embedded H81
<b>FRONT SIDE BUS</b>	DMI 2.0 support, four lanes in each direction, up to 20 Gb/s each direction, full duplex, DMI interface to PCH is supported
<b>SATA</b>	1x 6Gb/s SATA + 2x 3Gb/s SATA
<b>USB</b>	2x USB 3.0/2.0 + 2x USB 2.0 ports in Rear-IO, 6x USB 2.0 internal
<b>AUDIO</b>	HD Audio codec VT1708S supporting 7.1 channel surround sound
<b>ETHERNET</b>	2x Intel Gigabit-LAN
<b>AVAILABLE I/OS</b>	PCIe x16 socket with Gen3 and Gen2 support, 1x Mini-PCIe, 1x mSATA 1.50/3/6Gbit/s, 2x COM (RS232)
<b>REAR I/O</b>	Audio stacked 2x 3 mini Jack tower, 2x USB 3.0/2.0 + 2x USB 2.0 ports, 2x Display port, 2x RJ45 LAN
<b>SPECIAL FEATURE</b>	TPM 1.2, DAC up to 160 GPIO
<b>OS SUPPORT</b>	Win7, Win8 WES8, WES7, Linux, VxWorks
<b>TEMPERATURE</b>	Operating 0° C to 50° C (32° F to 122° F)
<b>ADDITIONAL</b>	Up to 7 years availability

## ▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
KTH81/MITX	810581-4500	Mini-ITX board based on Intel® Shark Bay platform

### CPUS

<b>CPU, CORE I5</b>	1054-9757	CPU, Core I5-4570S GT2 2.9G 4C 6M LGA1150
<b>CPU, CORE I7</b>	1054-9752	CPU, Core I7-4770S GT2 3.1G 4C 8M LGA1150

FURTHER CPUS WILL BE DEFINED IN NEAR FUTURE.

### RECOMMENDED MEMORY MODULES

<b>DDR3 DIMM 1 GB</b>	1054-3706	DDR3, 1 GByte, 240P, 1600 MHZ, PC3-12800 DIMM
<b>DDR3 DIMM 2 GB</b>	1054-3707	DDR3, 2 GByte, 240P, 1600 MHZ, PC3-12800 DIMM
<b>DDR3 DIMM 4 GB</b>	1054-3708	DDR3, 4 GByte, 240P, 1600 MHZ, PC3-12800 DIMM
<b>DDR3 DIMM 8 GB</b>	1052-5601	DDR3, 8GB, 240P, 1600MHZ, PC3-12800 DIMM

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