## **KEMX-5000**

Industrial Motherboard in Mini-ITX form factor with Intel® Core™ i7/i5/i3/Celeron processor and HM55 chipset



- Intel® Core™ i7/i5/i3/Celeron Processors
- •• Intel® HM55 Chipset
- Supports DVI-D, HDMI, VGA, 18/24-bit LVDS
- Two DDR3 SO-DIMM Socket, total up to 8 GB
- 1x Mini PCle slot, 1x Compact Flash Socket
- •• 3x SATA, 8x USB 2.0, 2x GbE
- •• 6x COM ports, 8 bit in/8 bit out Digital IO
- Watchdog Timer, Hardware Monitor

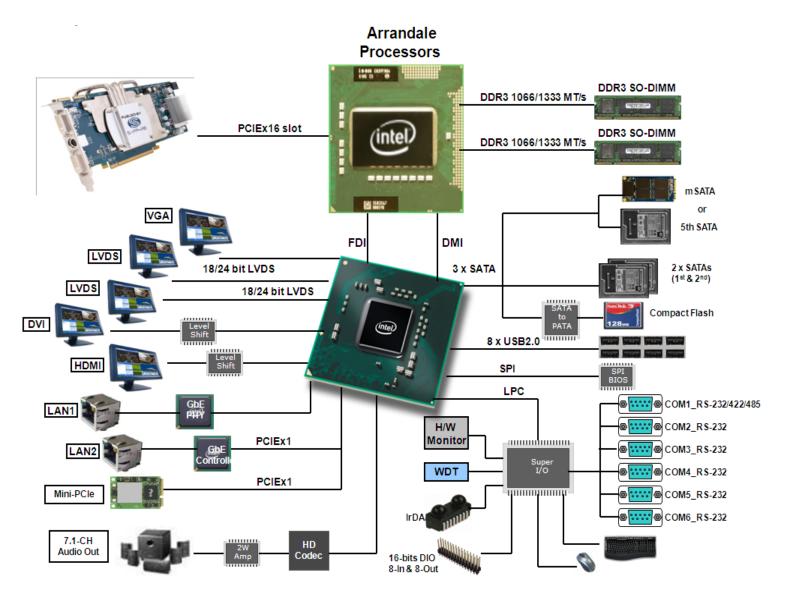


## Product Overview

The KEMX-5000 is a Mini-ITX form factor industrial motherboard combining the latest Intel® Core™ i7/i5/i3/Celeron processors with the high integration of the Intel® HM55 chipset. The new architecture of Arrandale Processors enable the lowest power consumption and smallest form factor for thin client and fundamental use. Featured are DDR3-1066/1333

SO-DIMM up to 8GB, dual 18/24-bits LVDS, HDMI, DVI-D, 2x Gigabit Ethernet, 3x SATA, mini PCIe Expansion slot, 8x USB 2.0, 6x COM ports with Power Selection, HD audio, keyboard/mouse and CompactFlash.

The KEMX-5000 is a compact, high performance industrial motherboard that is ideal for point-of-sales application.





## **Technical Information**

Intel® Core™ i7/i5/i3/Celeron Processors

Intel® HM55

2x DDR3 1066/1333 SO-DIMM Socket, up to 8GB

AMI PnP BIOS/TPM 1.2 supported

Display

1x HDMI and 1x DVI-D Dual 18/24-bits LVDS 1x VGA (DB15)

Audio

Realtek ALC888 HD audio codec onbaord

One audio stack connector for Line-Out, Line-In and Mic-In on rear I/O One 4-pins pitch 2.54mm header for SPDIF supported

One 2x5-pins pitch 2.54mm header for HD front panel audio supported One LM4838MTE 2Watts audio amplifier, Gain can be adjust by BIOS Two 2-pins pitch 2.54mm pin headers for Right/Left speaker out

Storage supported Three SATA supported

1x SATA to IDE converter IC onboard for CF supported

1x CF socket supported

Eight USB2.0 ports support

4x ports stack with two RJ-45 connectors on rear I/O

4x ports via two 2x5-pins 2.54mm pitch headers for internal. One 2x9-pins 2.54mm pitch header for 16-bits DIO supported One stack connector on rear I/O for PS/2 Keyboard and Mouse Six COM ports supported

1x DB-9 male connectors for COM1 on rear I/O

1x box headers for COM2 ~ COM6

COM1 with RS422/485 supported

COM1 ~ COM6 with +12V & +5V supported, select by jumper

One header for IrDA

Buzzer onboard Two fans supported

1x 4-pin FAN for CPU

1x 3-pin FAN for system

Fans speed control supported

LAN

Two Gigabit Ethernet ports supported

1x GbE controller (Intel 82574L) onboard

1x GbE PHY (Intel82577LM) onboard

2x RJ-45 connectors w/z Gb transformer (stack with dual USB connectors) on rear I/O

One 24-pins standard ATX power connector for power input AT/ATX Supported

1x Mini PCIE slot onboard with mini-PCIE SPEC. V1.2 supported

mSATA function fo BOM optional 1x PCle x 16 slot supported

ACPI

ACPI 3.0b supported

Watchdog Timer

1-255 step

Hardware Monitor

Operating voltage, CPU temperature and fan speed

Mini-ITX (170 x 170 mm)

Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C

Humidity: 0% - 90%

CE, FCC Class A

## KEMX-5000 Rear I/O

