

# 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 PCIe 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



## Technical Information

|                           |   |
|---------------------------|---|
| <b>CPU Support</b>        | Intel® Core™ i7/i5/i3/Celeron Processors  |
| <b>Chipset</b>            | Intel® HMS5   |
| <b>Memory</b>             | 2x DDR3 1066/1333 SO-DIMM Socket, up to 8GB   |
| <b>BIOS</b>               | AMI PnP BIOS/TPM 1.2 supported  |
| <b>Display</b>            | 1x HDMI and 1x DVI-D<br>Dual 18/24-bits LVDS<br>1xVGA (DB15)  |
| <b>Audio</b>              | Realtek ALC888 HD audio codec onboard<br>One audio stack connector for Line-Out, Line-In and Mic-In on rear I/O<br>One 4-pins pitch 2.54mm header for SPDIF supported<br>One 2x5-pins pitch 2.54mm header for HD front panel audio supported<br>One LM4838MTE 2Watts audio amplifier, Gain can be adjust by BIOS<br>Two 2-pins pitch 2.54mm pin headers for Right/Left speaker out  |
| <b>Peripheral Support</b> | Storage supported<br>Three SATA supported<br>1x SATA to IDE converter IC onboard for CF supported<br>1x CF socket supported<br>Eight USB2.0 ports support<br>4x ports stack with two RJ-45 connectors on rear I/O<br>4x ports via two 2x5-pins 2.54mm pitch headers for internal.<br>One 2x9-pins 2.54mm pitch header for 16-bits DIO supported<br>One stack connector on rear I/O for PS/2 Keyboard and Mouse<br>Six COM ports supported<br>1x DB-9 male connectors for COM1 on rear I/O<br>1x box headers for COM2 ~ COM6<br>COM1 with RS422/485 supported<br>COM1 ~ COM6 with +12V & +5V supported, select by jumper<br>One header for IrDA<br>Buzzer onboard<br>Two fans supported<br>1x 4-pin FAN for CPU<br>1x 3-pin FAN for system<br>Fans speed control supported |

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|------------------------------|--|
| <b>LAN</b>                   | Two Gigabit Ethernet ports supported<br>1x GbE controller (Intel 82574L) onboard<br>1x GbE PHY (Intel82577LM) onboard<br>2x RJ-45 connectors w/z Gb transformer (stack with dual USB connectors) on rear I/O |
| <b>Power</b>                 | One 24-pins standard ATX power connector for power input<br>AT/ATX Supported   |
| <b>Expansion</b>             | 1x Mini PCIE slot onboard with mini-PCIE SPEC.V1.2 supported<br>mSATA function fo BOM optional<br>1x PCIe x 16 slot supported  |
| <b>ACPI</b>                  | ACPI 3.0b supported  |
| <b>Watchdog Timer</b>        | 1-255 step   |
| <b>Hardware Monitor</b>      | Operating voltage, CPU temperature and fan speed   |
| <b>Dimensions</b>            | Mini-ITX (170 x 170 mm)  |
| <b>Environmental Factors</b> | Operation Temp: 0°C - 60°C<br>Storage Temp.: -10°C - 85°C<br>Humidity: 0% - 90%  |
| <b>Certifications</b>        | CE, FCC Class A  |

## KEMX-5000 Rear I/O

