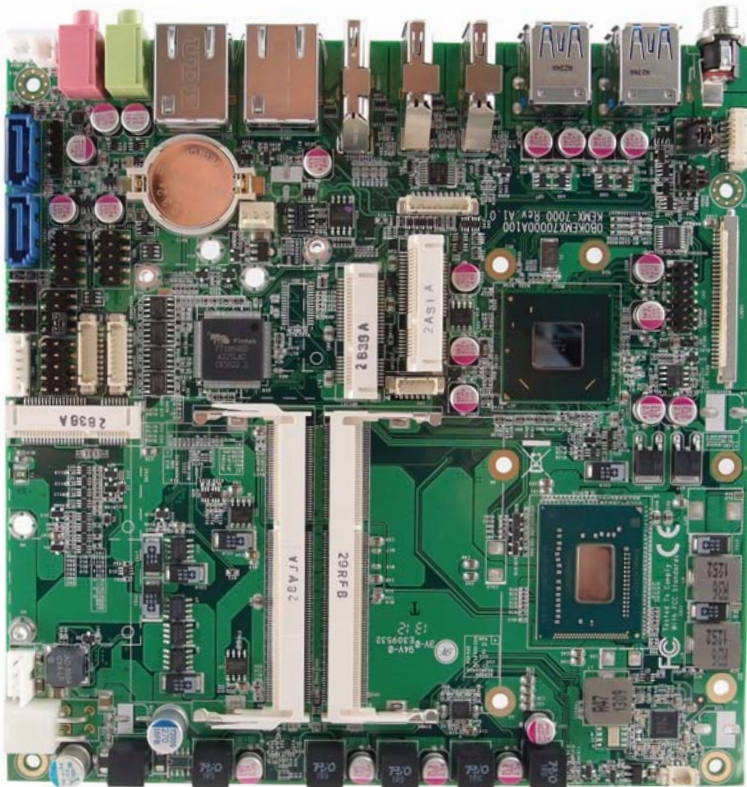


KEMX-7000

Industrial Motherboard in Mini-ITX form factor
with Intel® Celeron® Processor
and HM76 Express Chipset



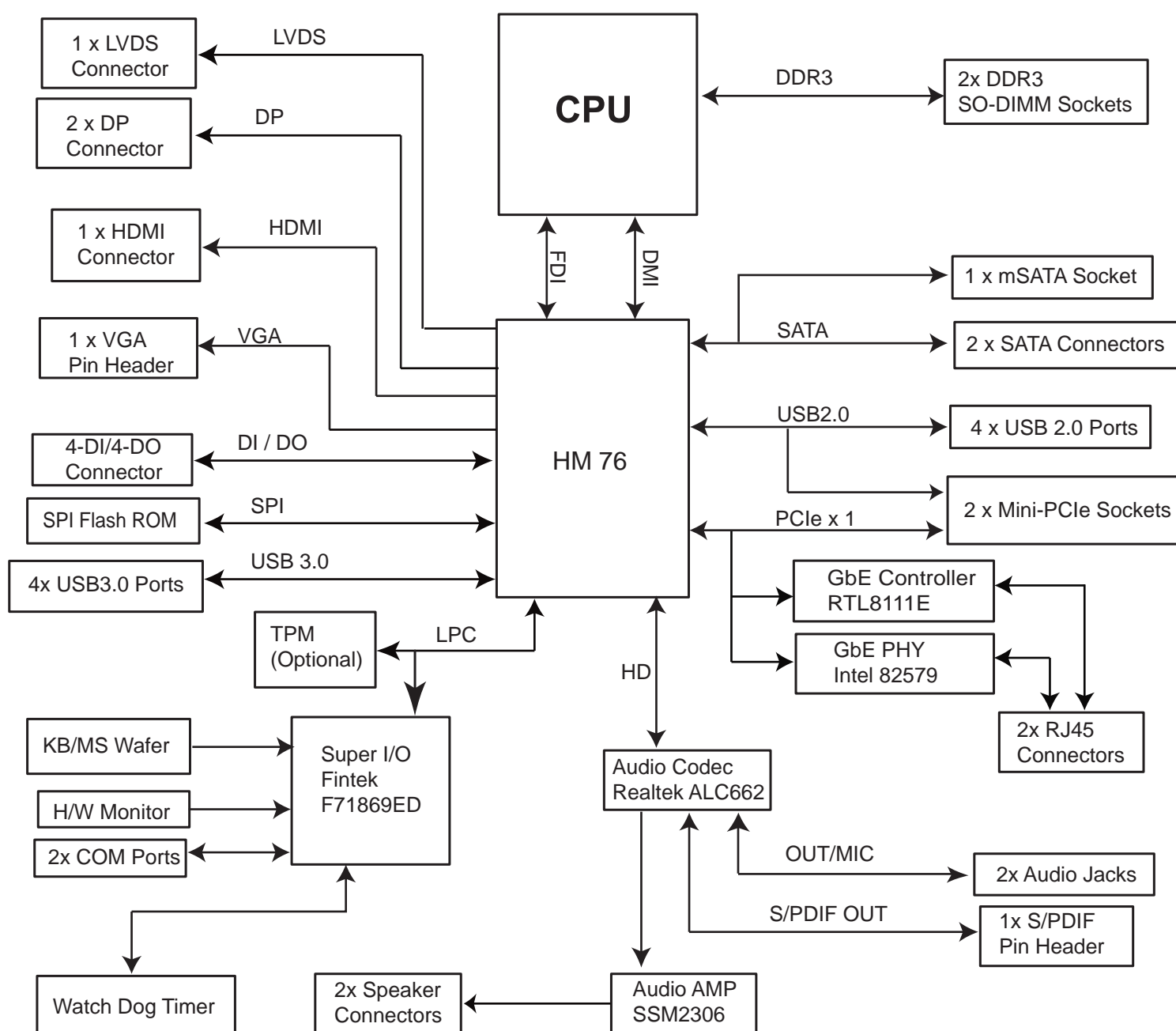
- Intel® Celeron® 1047UE Processor
- Intel® HM76 Express Chipset
- 1x VGA, 1x HDMI, 2x DP and 1x 24-bit dual-channel LVDS
- 2x DDR3 SO-DIMM Sockets up to 16GB
- 2x Mini PCIe Sockets and 1x mSATA Socket
- 2x SATA, 4x USB 3.0, 4x USB 2.0, 2x COM Ports
- 2x GbE, DIO supported
- Watchdog Timer, Hardware Monitor

Product Overview

The KEMX-7000 is a Mini-ITX form factor industrial motherboard combining Intel® Celeron® processor with the high integration of the Intel® HM76 chipset. Featured are 2x DDR3 SO-DIMM, 24-bit LVDS, HDMI, DP, VGA, 2x Gigabit Ethernet, 2x SATA, 4 x USB3.0, 4x

USB2.0, 2x Mini PCIe Sockets, 1x mSATA Socket, 2x COM ports, HD audio, keyboard/mouse and DIO. The KEMX-7000 is a compact, high performance industrial motherboard that is ideal for a variety of applications.

Block Diagram

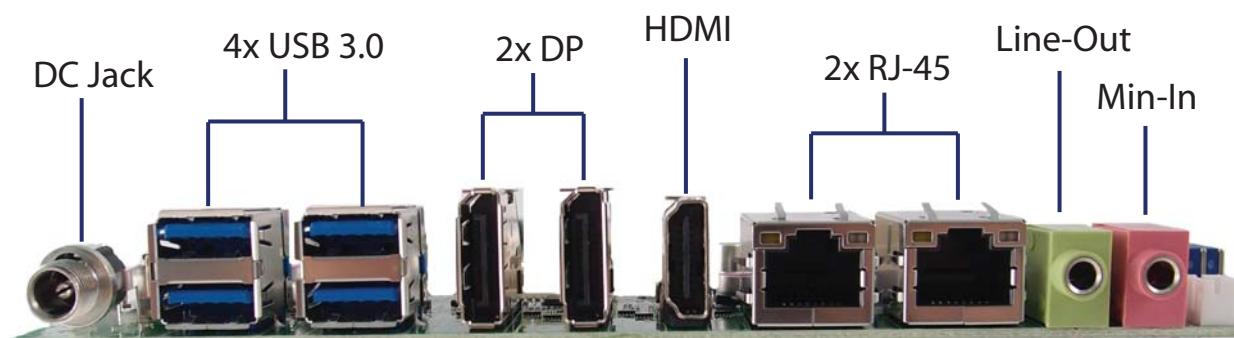


Technical Information

CPU Support
Intel® Celeron® 1047UE Processor
Chipset
Intel® HM76 Express Chipset
Memory
2x DDR3 SO-DIMM Sockets up to 16GB
BIOS
AMI uEFI BIOS/ 1x 64mb SPI flash ROM
Display
1x HDMI 2x DP 1x 24-bit dual-channel LVDS 1x VGA
Peripheral Support
Storage supported 2x SATA ports 1x mSATA socket 4x USB 2.0 ports 4x USB 3.0 ports 1x 8-bits DIO supported (4-bits DI/DO) 1x PS/2 Keyboard/Mouse 2x COM ports supported COM1 & COM2 with RS-232/422/485 supported 1x +5VDC CPU FAN with Speed Control 1x +12VDC System FAN with SSpeed Control 1x TPM supported (Optional) SM bus supported

Audio
Audio Codec Realtek ALC662 w/ 2W speaker output 1x Line-Out Audio jack 1x Mic-In Audio jack Line-In & S/PDIF headers
LAN
2x RJ-45, Gigabit Ethernet Intel GbE PHY 82579 and RTL8111E GbE controller
Power Connector
ACPI 3.0 supported 1x DC Jack for 9-24.5V DC Power Input 1x ATX for 9-24.5V DC Power Input 1x 12V & +5V DC Power Output AT/ATX supported
Expansion
2x Mini-PCle sockets supported 1x SIM Card wafer supported
Watchdog Timer
Programable WDT to generate System reset event
Hardware Monitor
Voltages / Temperature monitoring
Dimensions
Mini-ITX (170 x 170 mm)
Environmental Factors
Operation Temp: 0°C - 60°C Storage Temp.: -10°C - 85°C Humidity: 0% - 90%
Certifications
CE, FCC Class A

KEMX-7000 Rear I/O



Ordering Information

Article	Description
KEMX-7000	Mini-ITX CPU Board, Intel® Celeron® Processor 1047UE+HM76, 2x DDR3 SODIMM, 2 x GbE LANs, 1x VGA, 2x DP, 1x HDMI, 4x USB3.0, 4x USB2.0