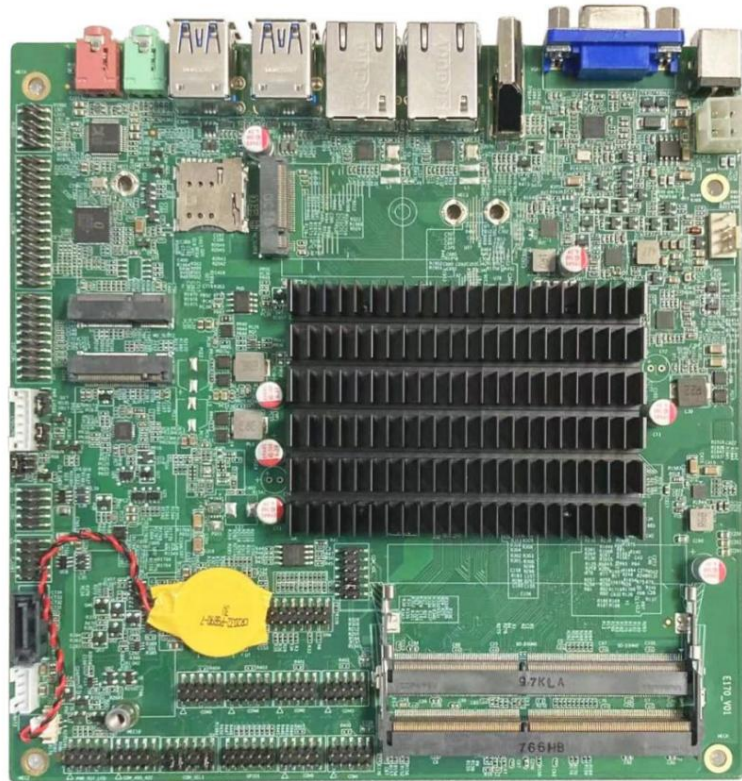


>>Datasheet<<

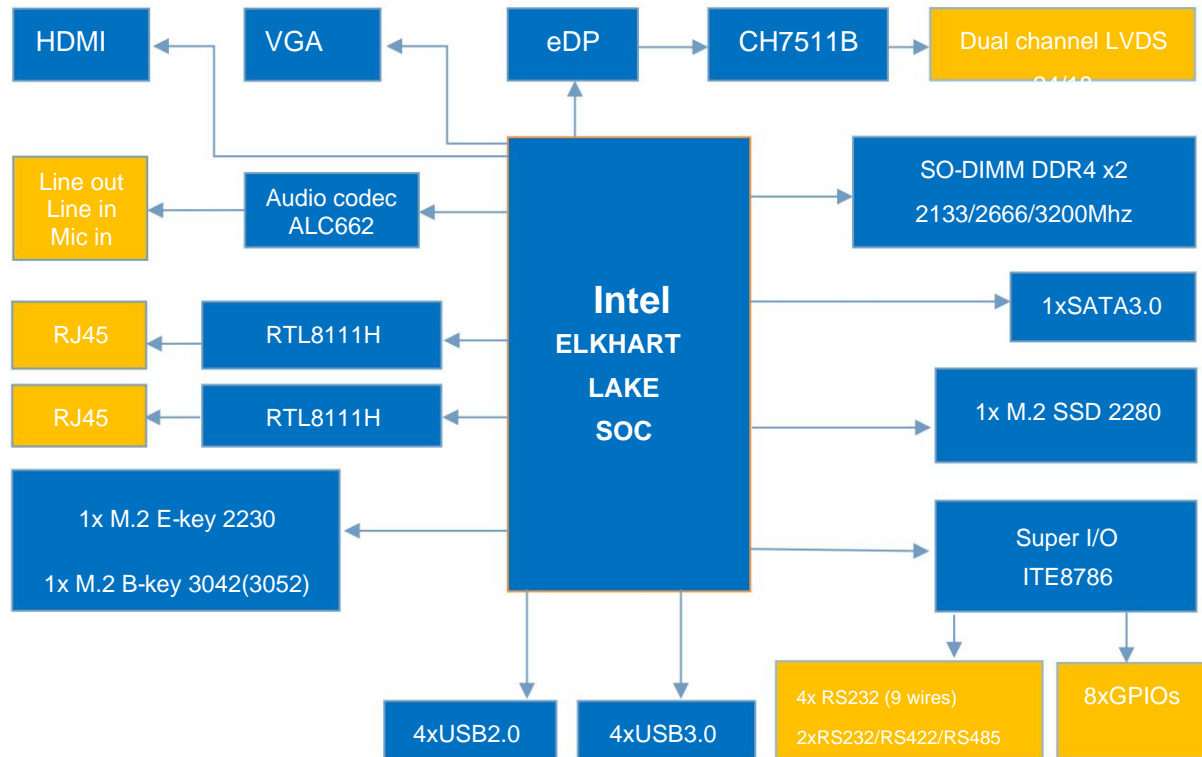
PCM-E170



Mini-ITX motherboard with onboard Intel® Elkhart Lake™ series SOC

- » Intel® Elkhart Lake series SOC, power consumption: 6.5~12W
- » SO-DIMM x2 DDR4 memory (voltage 1.2V, supports up to 32G) maximum frequency 3200MHz
- » Intel 11th generation graphics core, supports DX12, MPEG2, H.264, JPEG/MJPEG, H.265 (HEVC)
- » Support eDP 1.3, HDMI1.4, VGA, LVDS (18/24-bit single channel or dual channel)
- » Support 10/100/1000Mbit Ethernet, SATA, NVME SSD
- » USB 2.0 and USB 3.0 interface, RS232/422/485 serial port, GPIO interface
- » Voltage: +12V~+24V, +12V is recommended
- » Operating temperature: -20°C ~ +60°C (optional -40°C ~ +75°C)

PCM-E170 block diagram



Technical Information	
Plate type	Mini-ITX
processor	<p>Intel[®] Elkhart Lake series SOC, supports:</p> <p>Intel[®] Celeron[®] N6210 dual core 1.2GHz up to 2.6GHz, 6.5W</p> <p>Intel[®] Celeron[®] N6211 dual core 1.2GHz up to 3.0GHz, 6.5W</p> <p>Intel[®] Celeron[®] J6412 Quad core 2.0GHz up to 2.6GHz, 10W</p> <p>Intel[®] Celeron[®] J6413 Quad core 1.8GHz up to 3.0GHz, 10W</p> <p>Intel[®] Celeron[®] N6415 Quad core 1.2GHz up to 3.0GHz, 6.5W</p> <p>Intel[®] Celeron[®] J6426 Quad core 2.0GHz up to 3.0GHz, 10W</p> <p>Intel[®] Atom[®] X6200FE dual core 1.0GHz, 4.5W</p> <p>Intel[®] Atom[®] X6212RE dual core 1.2GHz, 6W</p> <p>Intel[®] Atom[®] X6414RE Quad core 1.5GHz, 9W</p> <p>Intel[®] Atom[®] X6427FE Quad-core 1.9GHz, 12W</p> <p>Intel[®] Atom[®] X6425RE Quad-core 1.9GHz, 12W</p> <p>Intel[®] Atom[®] X6211E dual core 1.3GHz up to 3.0GHz, 6W</p> <p>Intel[®] Atom[®] X6413E Quad core 1.5GHz up to 3.0GHz, 9W</p> <p>Intel[®] Atom[®] X6425E Quad core 2.0GHz up to 3.0GHz, 12W</p>
Memory	Two SO-DIMM DDR4 memories (voltage 1.2V, up to 32G), maximum frequency 3200MHz, 3
graphics processing	independent display outputs support eDP (maximum resolution 1920x1080) or LVDS (maximum resolution 1920x1080) HDMI1.4 (highest resolution 1920x1080), VGA (highest resolution 1920x1080)
network card	Supports 2 RTL8111H 10/100/1000 Mb/s Ethernet
storage	<p>1 M.2 SSD (M-Key 2280 PCIe x1 or SATA)</p> <p>1 M.2 WIFI (E-Key 2230 PCIe x1)</p> <p>1 M.2 4G/5G (B-Key 3042/3052 USB2.0& PCIe x1)</p> <p>1 SATA3.0</p>
USB	Support 4 USB2.0 and 4 USB3.0/2.0
serial port	Supports 6 RS232 (3 lines), of which COM1/2 can be optionally RS232/422/485, and COM3/4 can be optionally powered by Pin9 (5V/12V)
IO	8 GPIO interfaces, 1 SIM card slot, 1 TPM socket
Sound Card	ALC662 high-fidelity sound card (Line-in, Line-out, Mic-in)
Power	+12V~+24V voltage, +12V is recommended
Supply	Operating temperature -20°C to +60°C (optional -40°C ~ +75°C)
Temperature	170 mm x 170 mm
Dimensions	Fanless design (optional fan)
Heat Dissipation Operating System	Win10, Win11, Linux, VxWorks