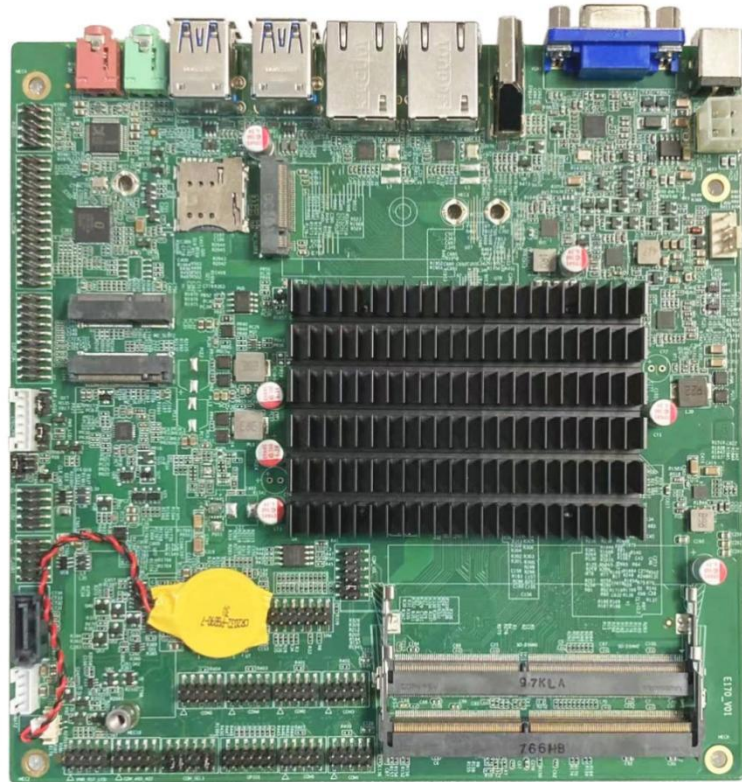


>> Datasheet <<

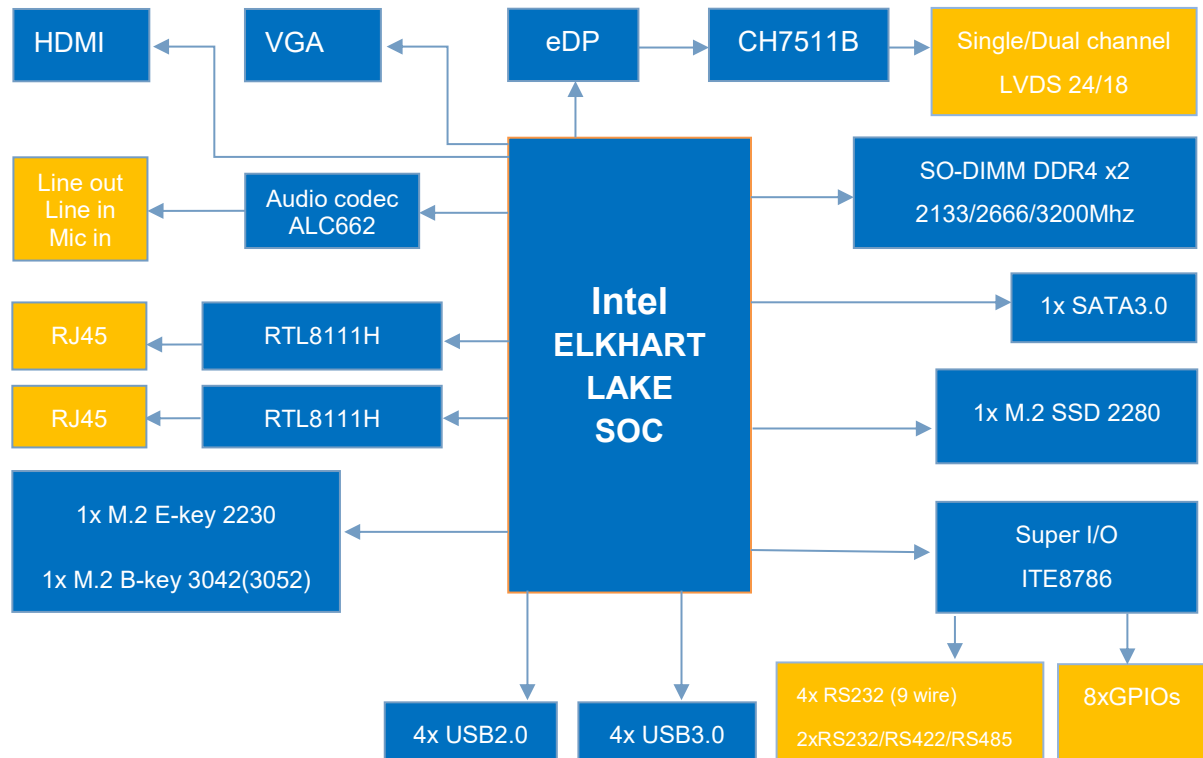
PCM-E170



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

- » Intel® Elkhart Lake series SoCs, power consumption: 6.5~12W
 - » SO-DIMM x2 DDR4 memory (1.2V, supports up to 64GB) with a maximum frequency of 3200MHz .
 - » Intel's 11th generation graphics core supports DX12, MPEG2, H.264, JPEG/MJPEG, and H.265 (HEVC).
 - » Supports eDP 1.3 , HDMI 1.4, VGA, LVDS (18/24- bit single-channel or dual-channel)
 - » Supports 10/100/1000Mbit Ethernet , SATA, NVMe SSDs
 - » USB 2.0 and USB 3.0 interfaces , RS232/422/485 serial port, GPIO interface, watchdog timer.
- Voltage : + 12V ~+ 24V , + 12V recommended .
- » Operating temperature: -20 ° C to + 60 ° C (optional -40° C to + 75 ° C)

PCM-E170 Block Diagram



Technical Information	
plate type	Mini-ITX
processor	Intel® Elkhart Lake series SOC's support: Intel® Celeron® N6210 Dual core 1.2 GHz up to 2.6 GHz , 6.5 W Intel® Celeron® N6211 Dual core 1.2 GHz up to 3.0 GHz , 6.5 W Intel® Celeron® J6412 Quad-core 2.0 GHz up to 2.6 GHz , 10 W Intel® Celeron® J6413 Quad-core 1.8 GHz up to 3.0 GHz , 10 W Intel® Celeron® N6415 Quad-core 1.2 GHz up to 3.0 GHz , 6.5 W Intel® Celeron® J6426 Quad-core 2.0 GHz up to 3.0 GHz , 10 W Intel® Atom® X6200F E Dual - Core 1.0 GHz , 4.5 W Intel® Atom® X6212R E Dual - core 1.2 GHz , 6W Intel® Atom® X6414R E Quad- core 1.5 GHz , 9W Intel® Atom® X6427F E Quad- core 1.9 GHz , 12W Intel® Atom® X6425R E Quad- core 1.9 GHz , 12W Intel® Atom® X6211E dual core 1.3 GHz up to 3.0 GHz , 6 W Intel® Atom® X6413 E Quad-core 1.5 GHz up to 3.0 GHz , 9 W Intel® Atom® X6425 E Quad-core 2.0 GHz up to 3.0 GHz , 12 W
Memory	Two SO-DIMM DDR4 memory modules (1.2V, maximum support 64GB) , maximum frequency 3200MHz .
Graphics processing	Three independent display outputs support eDP (maximum resolution 1920 x 1080) or LVDS (maximum resolution 1920 x 1080) , HDMI 1.4 (maximum resolution 1920 x 1080) , and VGA (maximum resolution 1920 x 1080) .
Network card	Supports two RTL8111H 10/100/1000 Mb/s Ethernet ports
storage	1 M.2 SSD (M-Key 2280 PCIe x1 or SATA) 1 M.2 WIFI (E-Key 2230 PCIe x1& USB2.0) 1 M.2 4G/5G (B-Key 3042/3052) PCIe x1 & USB 2.0 1 SATA 3.0
USB	Supports 4 USB 2.0 ports and 4 USB 3.0 / 2.0 ports .
serial port	Supports 6 RS232 ports, with COM1/2 selectable between RS232/422/485, and COM3/4 selectable with pin 9 powered (5V/12V).
I/O	8 GPIO ports, 1 SIM card slot, 1 TPM socket, watchdog function
sound card	ALC662 High-Fidelity Sound Card (Line-in, Line-out, Mic -in)
power supply	+ 12V to + 24V voltage , + 12V is recommended .
temperature	Operating temperature: -20° C to + 60 ° C (optional: -40° C to + 75 ° C)
size	170 mm x 170 mm
Heat dissipation	Fanless design (fan optional)
operating system	Windows 10 , Windows 11, Linux

