CAPA520
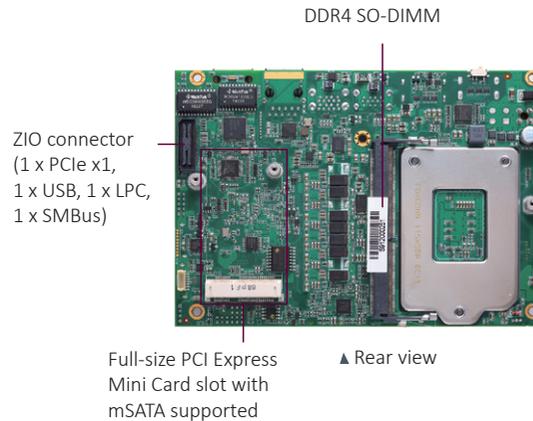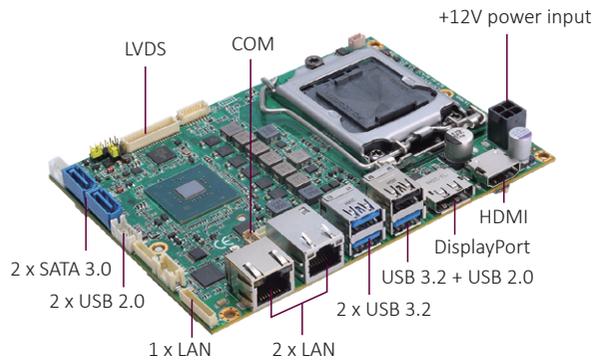
3.5" Embedded SBC with LGA1151Socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® Processor, DisplayPort, HDMI, LVDS and 3 GbE LAN

LVDS
COM
+12V power input
2 x SATA 3.0
2 x USB 2.0
1 x LAN
2 x LAN
2 x USB 3.2
USB 3.2 + USB 2.0
HDMI
DisplayPort

DDR4 SO-DIMM
ZIO connector (1 x PCIe x1, 1 x USB, 1 x LPC, 1 x SMBus)
Full-size PCI Express Mini Card slot with mSATA supported

▲ Rear view

▲ Assembly View

▲ Top view

Triple-View | All Solid Caps | DDR4 | AiRD | PCIe Mini | +12 V

Features

- LGA1151 socket 9th/8th Gen Intel® Core™ i7/i5/i3 processor
- Intel® H310/Q370 chipset
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 3 GbE LAN
- 1 PCI Express Mini Card slot
- Intel® AMT 12 supported (optional)

Specifications

Core System

CPU	LGA1151 socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (TDP 35W)
System Memory	1 x 260-pin DDR4-2666 SO-DIMM, up to 16GB
Chipset	Intel® H310/Intel® Q370
BIOS	AMI
SSD	1 x mSATA (optional)
Watchdog Timer	255 levels, 1 to 255 sec.

Specifications

Expansion Interface	1 x PCI Express Mini Card slot 1 x USB 1 x PCIe x1 1 x LPC 1 x SMBus through a ZIO connector
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto power on function supported
Display	
Chipset	Intel integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x HDMI 1 x LVDS; 18/24-bit single/dual channel 1 x DisplayPort
I/O	
SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® I210-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I210-AT; supports Wake-on-LAN, PXE Boot ROM (optional)
Audio	HD Audio link
USB	3 x USB 3.2 3 x USB 2.0
Serial	1 x RS-232/422/485
TPM	N/A
SMBus	Yes
Digital I/O	8-channel in/out programmed
Mechanical and Environmental	
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing

Ordering Information

Standard

CAPA520PHGG-H310-ZIO (P/N: E38E520103)	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO

Optional

CAPA520PHGG-Q370-ZIO (P/N: E38E520102)	3.5" Embedded SBC with LGA1151, Intel® Q370 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO
CAPA520PH3G-H310-ZIO (P/N: E38E520101)	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 3 GbE LAN and ZIO
CAPA520PH3G-Q370-ZIO (P/N: E38E520100)	3.5" Embedded SBC with LGA1151, Intel® Q370 chipset, DisplayPort, HDMI, LVDS, 3 GbE LAN and ZIO
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out
594E8422800E	2 USB 2.0 wafer cables with bracket, 180 mm
59380880250E	COM port cable DB-9 x 1P, P=1.25 mm, L=250 mm