



1 CPU Modules

2

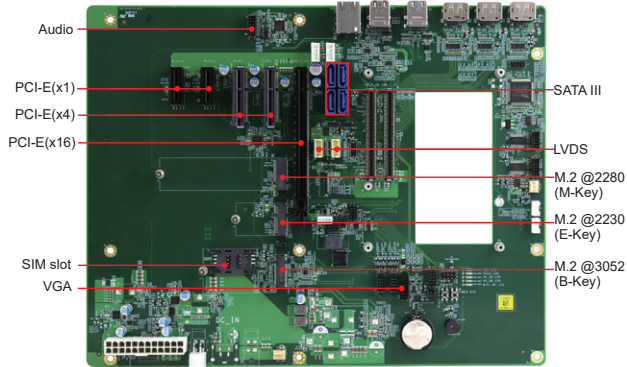
Single Board Computers

3

Motherboards

4

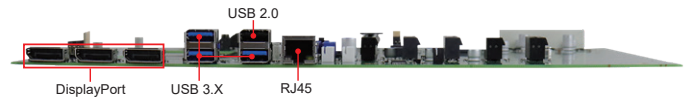
CPU Cards



## Features

- 1x PCI-E(x16), 2x PCI-E(x4), 2x PCI-E(x1) expansion slots
- 1x RJ45, 3x DP, 3x dual USB 2.0 (1x M.2 E-key, 1x Type-A, 1x via box headers), 3x dual USB 3.2
- 2x COM via onboard box-headers (RS232 only)
- ATX power connector / DC-in (+8V ~ +20V)

## I/O View



## Specifications

Form Factor	ATX
Module Interface	COM Express Type-6
Expansion Slots	1x PCI-E(x16) slot [up to Gen.5] 2x PCI-E(x4) slot 2x PCI-E(x1) slot
Mini Type Slots	1x M.2 (B3052) 1x M.2 (M2080) 1x M.2 (E2230)
Video Output	3x DisplayPort 1x VGA 1x 24-bit dual-channel LVDS 1x eDP
Ethernet	Derived from COM Express CPU module
I/O Chipset	Fintek F81964D-I
Serial Port	COM ports x2 via onboard box-headers (RS232 only) - 2x COM ports (from onboard Super I/O) - 2x COM ports (from CPU module, Tx/Rx only)
USB 2.0	Derived from COM Express module 3x USB2.0 (1 for Type-A, 2x via box headers)
USB 3.X	3x USB 3.2 Type-A connectors @edge I/O
Serial ATA	Derived from COM Express CPU module 4x SATA III
Audio	Built-in ALC888-S HD audio codec
Digital I/O	4-in/4-out
Watchdog	256 levels
KB/MS	Yes
Parallel	N/A
Dimensions (L X W)	305mm x 244mm (12" x 9.6")
Power	20+4-pin connector for ATX (IP414) 2x 2-pin connector for DC power-in (IP414-DC only)
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10% ~ 90% (non-condensing)

## Ordering Information

IP414	ATX COM Express Type-6 carrier board, supports ATX
IP414-DC	ATX COM Express Type-6 carrier board, supports DC-in (+8V ~ +20V)

## Dimensions and Drawing

