



**Industrial Full-size PICMG 1.3 SBC supports 12/13<sup>th</sup> Generation Intel® Core™ Processors with Intel® R680E/H610E PCH, SATA3, M.2 Key, USB 3.2, Dual LAN and DVI-I**



## Features

- Supports Intel 12/13<sup>th</sup> Gen. Core Processors
- Dual Gigabit Ethernet supported
- (6) SATA-600 with RAID 0/1/5/10 (R680E)
- Watchdog & Hardware Monitor function
- Supports Intel® AMT and vPro (R680E)

## CPU

- LGA1700 for 12/13<sup>th</sup> Generation Intel® Core™ Processors, up to 125W

## Chipset

- Intel® R680E/H610E

## System Memory

- (4) DDR5 4400 un-buffered DIMM max. up to 128GB (R680E supports ECC)

## Display Interface

- Intel® HD Graphics
- (1) DVI-I, (1) DisplayPort++ (onboard header)

## Ethernet

- 1st port with Intel® i225-LM with AMT and vPro
- 2nd port with Intel® i225-V
- support WOL, PXE Boot ROM

## Audio

- Optional Audio Codec with external module

## TPM

- Optional TPM 2.0 module

## I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.2 Gen.2x1 & (4) USB 3.2 Gen.1, (3) USB 2.0 Ports
- R680E: (6) SATA-600 support RAID 0/1/5/10
- H610E: (4) SATA-600
- M.2 Key M 2280, PCIe 4.0 x4 signal
- (1) PS/2 keyboard & (1) PS/2 mouse & (1) LPT

## Expansion Interface

- (1) PCIe x16, Gen. 4
- (1) PCIe x4 or (4) PCIe x1, Gen. 4
- (4) 32 bit PCI bus masters

## Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

## Dimension

- 338mm x 126mm

## Ordering Information

<b>SBC-6512 2GND-R</b>	LGA1700 Socket 12/13th Gen. Intel® Core™ processors, Intel® R680E PCH, USB 3.2, SATA 3.0, Dual LAN, DVI-I
<b>SBC-6512 2GND-H</b>	Intel® H610E PCH
<b>AAC-93242</b>	Optional Audio Kit
<b>AAC-93515</b>	Optional TPM2.0 module