



# ECO-1821

## ATX SBC with Intel® C246 Chipset

- Support Intel® Core™ 8<sup>th</sup>/9<sup>th</sup> Gen LGA 1151 CPU
- Intel® C246 chipset
- Provide 4 x 288 pin DDR4 UDIMM, up to 128G
- Support VGA+DVI+HDMI+DP tri-display
- Support 4 x SATA and RAID
- Support 2 x PCIe x16/3 x PCIe x4/2 x PCI/2 x M.2



### Specifications

<b>CPU</b>	Support Intel LGA1151 8 <sup>th</sup> /9 <sup>th</sup> Gen Coffee Lake CPU, i7, i5, i3, Pentium, Celeron
<b>Chipset</b>	Intel C246
<b>Memory</b>	4 x 288 pin DDR4 2400/2666MHz ECC/Non-ECC UDIMM, up to 128GB
<b>Display</b>	1 x VGA, max resolution 1920 x 1200 @ 60Hz; 1 x HDMI, max resolution 4096 x 2160 @ 30Hz; 1 x DP, max resolution 4096 x 2304 @ 60Hz; 1 x DVI-D; Support tri-display with any three of them
<b>Audio</b>	1 x HDA, support Mic-in/Line-in/Line-out
<b>LAN</b>	2 x 10/100/1000Mbps RJ45 LAN, LAN1 Support wake-on-line
<b>Storage</b>	4 x SATA 3.0, support RAID 0/1/5/10
<b>I/O</b>	6 x COM (COM1/COM2 support 232/422/485, All pin header) 12 x USB (4 x 3.1 Gen2 connector, 2 x 3.1 Gen1 connector, 6 x 2.0 pin header) 1 x PS/2 pin header 1 x I <sup>2</sup> C pin header 1 x LPT pin header 1 x TPM pin header 1 x LPC pin header (optional 4 more COM ports by LPC riser card) 1 x 8bit GPIO pin header
<b>Expansion</b>	2 x PCIe x16 (Note: When 2 x PCIE*16 slots are used at the same time, the speed is reduced to PCIE*8) 3 x PCIe x4 2 x PCI 1 x M.2 E-Key, 2230 1 x M.2 M-Key, PCIe4 with SATA interface, 2242/2260/2280/22110
<b>Working environment</b>	-10~60°C; 5~95%
<b>Storage environment</b>	-20~80°C; 5~90%
<b>Power</b>	ATX power, support S0/S4/S5
<b>Software</b>	Support Intel® AMT 12.0 and Intel® vPro
<b>OS</b>	Win10, Linux

**Ordering Information**

<b>Part Number</b>	<b>Model Number</b>	<b>Description</b>
0030-023211	ECO-1821	ATX MB/Intel® C246 chipset/Support Intel® 8 <sup>th</sup> /9 <sup>th</sup> Gen CPU/ 4 x 288 pin DDR4 UDIMM/VGA+DVI+HDMI+DP/4 x SATA with RAID/ 2 x LAN/12 x USB/6 x COM/1 x PS2/HD Audio/1 x 8bit GPIO/1 x LPT/1 x TPM/ 2 x PCI/3 x PCIe x4/2 x PCIe x16/2 x M.2/ATX power supply
0010-149491	IPC-810E/ECO-1821/i7-9700/8G/1T/300W	4U 19" rackmount IPC/ECO-1821 MB/i7-9700/8G RAM/1T HDD/ATX 300W/ 2 x LAN/8 x USB (2 x 2.0 in front, 6 x 3.1 in rear)/6 x COM/VGA/DVI/HDMI/DP/ 2 x PCI/3 x PCIe x4/2 x PCIe x16/2 x M.2