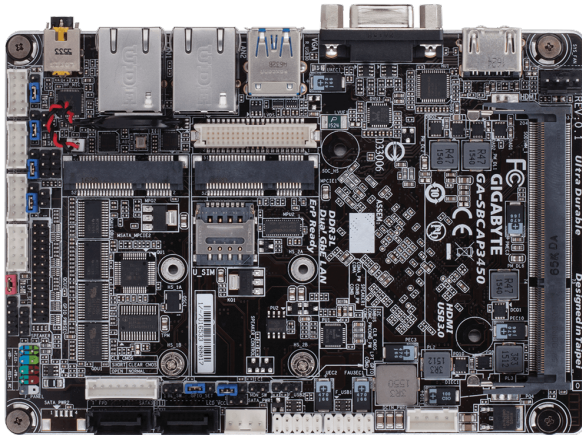


# EmCore-G3450



3.5" SBC with Intel® Apollo Lake N-Series Fanless,  
Low-Power, High-Performance & Wide Temperature Solution



## Features

- Intel® Apollo Lake Celeron N Series SoC
- Supports DDR3L 1600 MHz SO-DIMM memory up to 8GB
- 3 independent displays with HDMI, DP, eDP, and LVDS outputs
- 4 USB 3.0, 4 USB 2.0, and 6 COM ports
- Dual Mini-PCIe, 2 SATA3.0, mSATA, NANO SIM-Holder, Dual GbE LAN, and Front LAN LED
- Operating temperature : -20 ~ 70°C
- Supports DC-in 12~24V
- 1x TPM 2.0 Module IC Onboard
- **4K immersive Graphics, Media Performance**

System	
CPU	Intel® Apollo Lake™ Celeron N Series, N3450 Quad Core, 6W
Memory	1 x DDR3L SO-DIMM socket, supporting SDRAM up to 8GB
BIOS	UEFI BIOS
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	COM1: RS-232/422/485 COM2 - COM 4RS-232
USB Port	4 x USB 2.0 ports 4 x USB 3.0 port
Digital I/O	16-bit programmable Digital Input/Ouput
Expansion Bus	1 x mPCIe Slot 1 x mPCIe ( mSATA )
Storage	2 x Serial ATA port with 600MB/s HDD transfer rate SATA 3..0
Ethernet Chipset	2 x Intel® PCIe GbE controllers 2 x Realtek® RTL-81117GbE LAN
Audio	Realtek ALC255 HD Audio CODEC, MIC-in/ Line-out/Line-in

## Display

Graphic Chipset	Integrated Intel® 9 Gen.HD Graphics, DirectX 12
Graphic Interface	HDMI: Vertical HDMI connector 3840x2160 LCD: Dual Channel 24-bit LVDS 1920x1200 Analog RGB that supports resolution up to 1920 x 1200

## OS Support

Windows 7 32-bit/64-bit  
Windows 8.1 32-bit/64-bit  
Linux: Ubuntu

## Mechanical & Environmental

Power Requirement	+ 9 - 36 V DC
Power Consumption	0.85A@+12V (typical) ( 3450 CPU )
Operating Temp.	-20 ~ 70°C
Operating Humidity	10%~95% @ 70°C (non-condensing) 10%~95% @ 85°C (non-condensing, WT series)
Dimensions (L x W)	146 x 102 mm (5.7" x 4.0")



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