

# CAPA312

3.5" Embedded SBC with Intel® Pentium® Processor N4200 or Celeron® Processor N3350, HDMI/LVDS, Dual GbE LAN, and Audio

## Features

- Intel® Pentium® processor N4200/Celeron® processor N3350
- 1 DDR3L SO-DIMM, up to 8GB
- 2 USB 2.0 and 4 USB 3.0
- 2 PCI Express Mini Card slots



### Core System

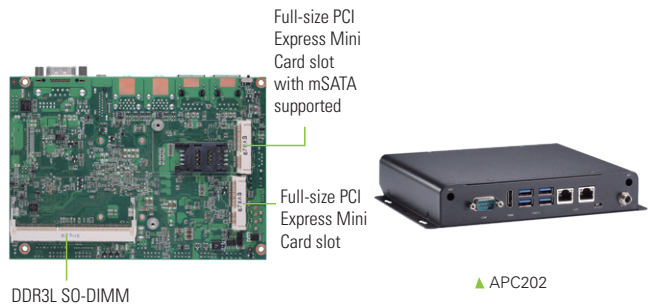
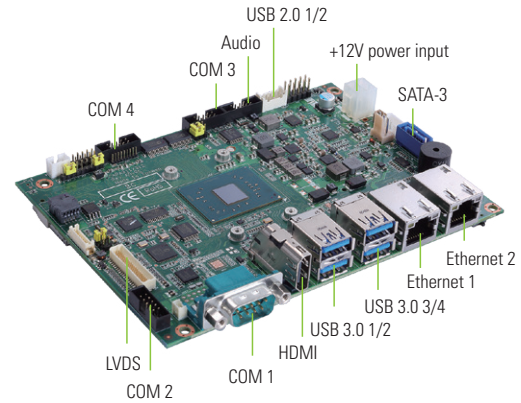
CPU	Intel® Pentium® processor N4200/Celeron® processor N3350 onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC Integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	65536 levels, 1 ~ 65535 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA supported 1 x Full-size PCI Express Mini Card 1 x SIM slot
Battery Lithium	Lithium 3 V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Pentium® N4200 @ 1.1 GHz, 8GB DDR3L Max. RMS. +12V @ 1.5A Intel® Celeron® N3350 @ 1.1 GHz, 8GB DDR3L Max. RMS. +12V @ 1.2A
Size	146 x 104 mm
Board Thickness	1.6 mm
Temperature	Standard: -20°C to +60°C (-4°F to +140°F) Optional: -20°C to +70°C (-4°F to +158°F)
Relative Humidity	10% to 95% relative humidity, non-condensing

### I/O

MIO	2 x RS-232/422/485 2 x RS-232
SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports 10/100/1000 Mbps support Wake-on-LAN, PXE Boot ROM with Intel® I210-AT
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC888S
USB	2 x USB 2.0 4 x USB 3.0
SMBus	Yes; compatible with I <sup>2</sup> C
Digital I/O	8 channels in/out programmable
TPM	ST ST33HPTX232AHD8 with TPM2.0 compliant

### Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x LVDS; 18/24-bit single/dual channel 1 x HDMI 1 x VGA (optional) 1 x eDP (optional)



DDR3L SO-DIMM

▲ APC202

### APC202, Industrial Chassis

SBC Option	CAPA312HGGA-N3350 w/ heatsink
I/O	2 x GbE LAN 4 x USB 3.0 1 x HDMI 1 x COM (RS-232/422/485) 1 x 12V DC Jack
Dimensions (with wall mount ear)	207.5 mm (8.17") (W) x 140 mm (5.51") (D) x 35 mm (1.37") (H)
Operating Temperature	-10 C to +50 C (+14 F to +122 F)
APC202 (P/N: E27P202100)	APC202 w/N3350, 8GB RAM, 64GB mSATA, and 12V/60W adapter

### Packing List

Accessories		
Part Number	Description	Qty
59382620000E	1 x COM w/ bracket, P=2.0 mm, L=300 mm	1
59384500100E	Audio cable w/ bracket, P=2.0 mm, L=450 mm	1
594E8422800E	2 x USB 2.0 wafer cable w/ bracket, 180 mm	1

### Ordering Information

Standard		
CAPA312HGGA-N4200 (P/N: E38E312100)	3.5" Embedded SBC with Intel® Pentium® processor N4200 (1.1 to 2.5 GHz, 2MB Cache, 6 W), LVDS/HDMI, 2 GbE LAN, audio and heatsink	
CAPA312HGGA-N3350 (P/N: E38E312102)	3.5" Embedded SBC with Intel® Celeron® processor N3350 (1.1 to 2.4 GHz, 2MB Cache, 6 W), LVDS/HDMI, 2 GbE LAN audio and heatsink	