

CAPA312

3.5" Embedded SBC with Intel® Pentium® Processor N4200 & Celeron® Processor N3350, HDMI/LVDS, Dual GbE LANs 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

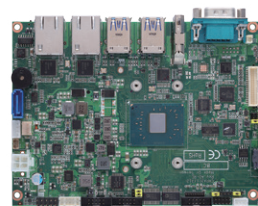
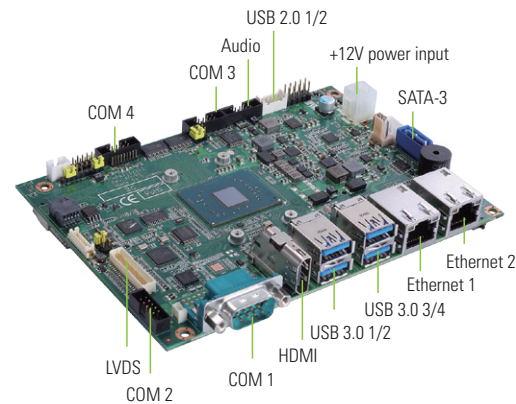


Core System

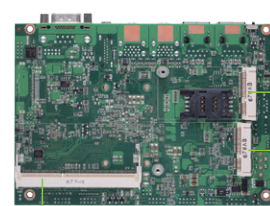
CPU	Intel® Pentium® processor N4200/Celeron® processor N3350 onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC Integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	65536 levels, 1 ~ 65535 sec.
Expansion Interface	1 x full-size PCI Express Mini Card with mSATA supported 1 x full-size PCI 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 ~ +60°C (-4°F ~ +140°F) Optional: -20°C ~ +70°C (-4°F ~ +158°F)
Relative Humidity	10% ~ 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® i211AT
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 2.0 4 x USB 3.0
SMBus/I ² C	Yes for advanced monitoring/control
Digital I/O	8 channels in/out programmable
TPM	ST ST33TPM12LPC with TPM 1.2 compliant



▲ Top view



▲ Rear view

DDR3L SO-DIMM

Full-size PCI Express Mini Card slot with mSATA supported

Full-size PCI Express Mini Card slot

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)

Packing List

Standard		
Quick installation guide, user's manual/utility CD and accessories		
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
59382631000E	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 ~ 2.5 GHz, 2MB Cache, 6 W), LVDS/HDMI, 2 GbE LANs and audio
CAPA312HGGA-N3350 (P/N: E38E312102)	3.5" Embedded SBC with Intel® Celeron® processor N3350 (1.1 ~ 2.4 GHz, 2MB Cache, 6 W), LVDS/HDMI, 2 GbE LANs and audio

