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 on-board

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 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

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)

Packaging List

- Standard:
  - Quick installation guide, user’s manual/utility CD and accessories

I/O

- MIO: 2 x RS-232/422/485, 2 x RS-232, 1 x SATA-600
- SATA: 1 x SATA
- 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/PCI: Yes for advanced monitoring/control
- Digital I/O: 8 channels in/out programmable
- TPM: ST ST33TPM12LPC with TPM 1.2 compliant

Ordering Information

- Standard:
  - CAPA312HGA-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
  - CAPA312HGA-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

*All specifications and photos are subject to change without notice.