

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

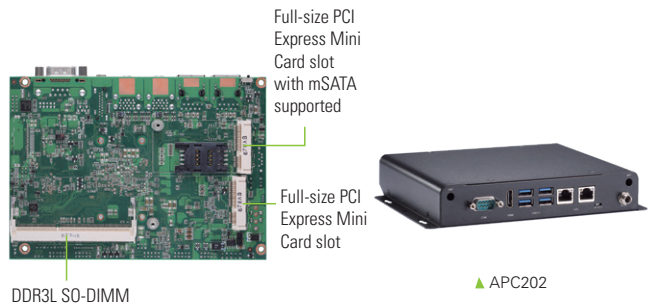
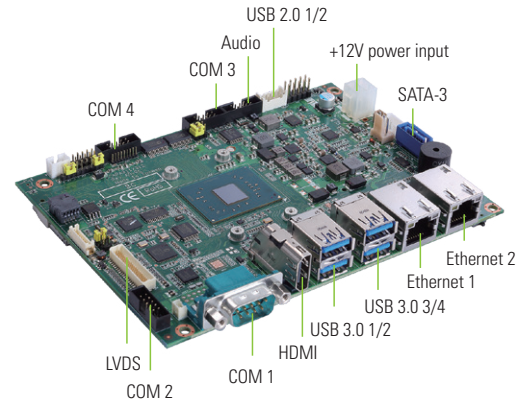
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|---------------------|--|
| CPU | Intel® Pentium® processor N4200/Celeron® processor N3350 onboard |
| System Memory | 1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB |
| Chipset | SoC Integrated |
| BIOS | AMI |
| SSD | N/A |
| Watchdog Timer | 65536 levels, 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 ² 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 | |

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