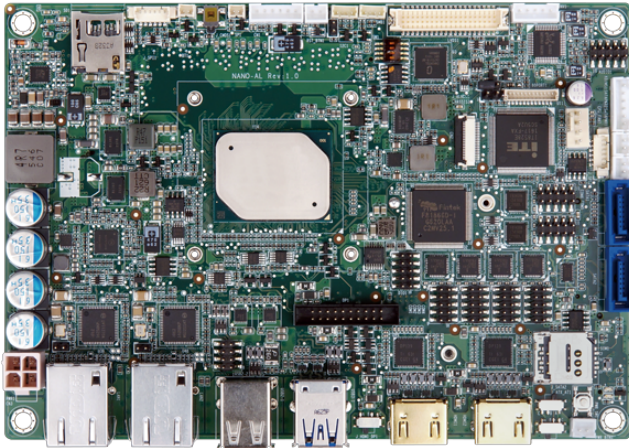


NANO-AL

EPIC SBC supports 14nm Intel® Pentium®/Celeron®/Atom™ on-board SoC



Features

- » EPIC SBC supports 14nm Intel® Pentium®/Celeron®/Atom™ on-board SoC supports dual-channel DDR3L SO-DIMMs.
- » Triple independent display support.
- » Wide range 9V~30V DC input design.
- » M.2 B Key slot with SIM sockets for 3G/LTE expansion.
- » COM, USB 3.0, SATA 6Gb/s, M.2, eMMC 5.0 and audio support.

Specifications

| System | |
|--------------------------|---|
| CPU | Intel® Pentium® N4200 on-board SoC (up to 2.5GHz, quad-core, 2M Cache, TDP=6W) Intel® Celeron® N3350 on-board SoC (up to 2.4GHz, dual-core, 2M Cache, TDP=6W) Intel® Atom® x7-E3950 on-board SoC (up to 2.0GHz, quad-core, 2M Cache, TDP=12W) Intel® Atom® x5-E3940 on-board SoC (up to 1.8GHz, quad-core, 2M Cache, TDP=9W) Intel® Atom® x5-E3930 on-board SoC (up to 1.8GHz, dual-core, 2M Cache, TDP=6W) |
| Memory | One 204-pin 1866/1600MHz Single-channel DDR3L SO-DIMM |
| Memory Max. | 8GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 115 X 165 |
| Net Weight | 350g |
| Storage | |
| Storage | 2 x SATA :6Gb/s with 5V SATA power connector (no RAID) 1 x SD/MicroSD card :optional |
| I/O Interface | |
| Display Output | 2 x HDMI™ :up to 3840x2160@30Hz 1 x LVDS :18/24-bit dual-channel (up to 1920x1200@60Hz) 1 x iDP :interface for HDMI™. LVDS, VGA, DVI, DP (up to 4096x2304@60Hz) (colay with HDMI™ 1) |
| Ethernet | Description: Intel® I211-AT PCIe controller |
| Audio | 1 x Description: Realtek ALC662 HD codec 1 x Front Audio :2x5 pin |
| I/O Interface | 4 x Internal RS-232 :2x5 pin, P=2.0 2 x Internal RS-422/485 :2x5 pin, P=2.0 2 x External USB 2.0 2 x External USB 3.2 Gen1x1 2 x Internal USB 2.0 :2x4 pin, P=2.0 1 x PS/2 :1x6 pin |
| Expansion | 1 x PCIe mini Card Slot :Full/Half-size PCIe Mini slot with SIM holder (optional) 1 x M.2(NGFF) :2242 (B key, SATA, USB 2.0, USB 3.1 Gen 1 (5Gb/s) signal only) |
| Power | |
| Power Consumption | 12V@2.13A (Intel® Pentium® N4200 CPU with one 8GB 1600MHz DDR3L memory) 12V@2.81A (Intel® Atom™ x7-E3950 CPU with one 8GB 1600MHz DDR3L memory) |
| Power Supply | 9V~30V DC input 1 x Internal power connector (2x2 pin) |

| | |
|-----------------------|--|
| | Support AT/ATX mode |
| Environment | |
| Operating Temperature | -20°C ~ 70°C / -40°C ~ 85°C (NANO-AL-ExW2) |
| Storage Temperature | -40°C ~ 85°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

Ordering Information

| | |
|----------------|--|
| NANO-AL-N2-R10 | EPIC SBC supports Intel® 14nm quad-core Pentium® N4200 2.5GHz on-board SoC with Dual HDMI™/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, M.2, SATA 6Gb/s, COM, Audio and RoHS |
| NANO-AL-N1-R10 | EPIC SBC supports Intel® 14nm dual-core Celeron® N3350 2.3GHz on-board SoC with Dual HDMI™/LVDS/iDP, Dual PCIe GbE, USB 3.0, PCIe Mini, M.2, SATA 6Gb/s, COM, Audio and RoHS |

Packing List

| | |
|---|--|
| 1 x NANO-AL single board computer with Heatsink | 1 x Power cable |
| 1 x SATA with power cable kit | 1 x Screw set (for half-size PCIe Mini card) |
| 1 x QIG | 1 x RS-232 cable |