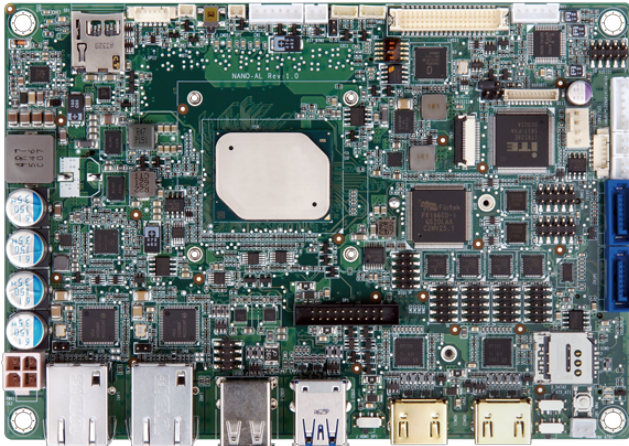


# NANO-AL

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