



NUC-APL

Intel® Apollo Lake Fanless NUC System

- > Onboard Intel® Celeron® Processor J3455/N3350
- > Single DRAM Socket, Max. Up to 8GB DDR3 1866MHz
- > Rich I/O, 2 x COM, 2 x LAN, 4 x USB3.0, 1 x Audio, 2 x Antenna Mounting
- > Triple Display, 2 x HDMI, 1 x DP (DVI-I/VGA Factory Option)
- > Expansion Slot, M.2 Key-B, M.2 Key-E
- > Fanless Operating from 0°C ~ 60°C
- > DC Power Input +12V
- > Compact Size, 115mm x 111mm x 58mm
- > Supports VESA/Din-Rail Kit
- > TPM 2.0 (Factory Option)

+ Spec

System Information	
Processor	Intel® Celeron® Processor J3455 (2M Cache, up to 2.3 GHz) Intel® Celeron® Processor N3350 (2M Cache, up to 2.4 GHz)
System Memory	1 x 204-pin SO-DIMM Socket, Max, Up to 8GB DDR3L 1866MHz
BIOS Information	AMI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
SBC	NCM-APL
Expansion	
Expansion	1 x M.2 (Key-B, 2242/3042, PCIe, SATA, USB 3.0, USB 2.0, SIM Slot) 1 x M.2 (Key-E, 2230, PCIe, USB2.0)
Storage	
Storage	1 x 2.5" Drive Bay (7 or 9.5mm) 1 x M.2 (Key-B, 2242, SATA)
I/O	
USB Port	4 x USB 3.0 (5Gbps)
COM Port	1 x RS-232/422/485 (BIOS&Cable) 1 x RS-232
Antenna	2 x Antenna Mounting with Dust Cover
System Control	
LED Indicator	1 x Power on/off LED & Storage Access LED on front side
Display	
Graphic Chipset	Intel® HD Graphics 500
Spec. & Resolution	2 x HDMI 1.4b: Max. Resolution 3840x2160@30Hz 1 x DP (DVI-I/VGA Factory Option): Max. Resolution 1920 x 1080@60Hz
Multiple Display	Triple Display
Audio	
Audio Codec	Realtek ALC888S
Audio Interface	1 x Audio Jack (Mic-in + Line-Out Combo)
Certifications	
Certification Information	CE, FCC Class A
Ethernet	
LAN Chipset	Realtek RTL8111E Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible
LAN Port	2 x RJ45
Power Requirement	
DC Input	+12V
DC Input Connector	Lockable DC Jack
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 12V/5A AC-DC 60W Adapter
Mechanical & Environmental	
Operating Temperature	With extended temperature peripherals -10°C ~ 50°C (14°F ~ 122°F) with 0.2m/s air flow With extended temperature peripherals -10°C ~ 60°C (14°F ~ 140°F) with 0.5m/s air flow
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	115mm x 111mm x 58mm (4.53" x 4.37" x 2.28")



Weight	0.85KG (1.87lbs)
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
Shock Test	With SDD : 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Mounting Kit	VESA/Din Rail Kit
Drop	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Construction	Aluminum + Metal
Software Support	
OS Information	Win 10, Linux
Ordering Information	
Ordering Information	NUC-APL-34-B1-1R Intel Celeron Processor J3455 Fanless NUC System NUC-APL-33-B1-1R Intel Celeron Processor N3350 Fanless NUC System