



## 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	
<b>Processor</b>	Intel® Celeron® Processor J3455 (2M Cache, up to 2.3 GHz) Intel® Celeron® Processor N3350 (2M Cache, up to 2.4 GHz)
<b>System Memory</b>	1 x 204-pin SO-DIMM Socket, Max. Up to 8GB DDR3L 1866MHz
<b>BIOS Information</b>	AMI BIOS, 128Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring CPU Temperature, Voltage with Auto Throttling Control
<b>SBC</b>	NCM-APL
Expansion	
<b>Expansion</b>	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	
<b>Storage</b>	1 x 2.5" Drive Bay (7 or 9.5mm) 1 x M.2 (Key-B, 2242, SATA)
I/O	
<b>USB Port</b>	4 x USB 3.0 (5Gbps)
<b>COM Port</b>	1 x RS-232/422/485 (BIOS&Cable) 1 x RS-232
<b>Antenna</b>	2 x Antenna Mounting with Dust Cover
System Control	
<b>LED Indicator</b>	1 x Power on/off LED & Storage Access LED on front side
Display	
<b>Graphic Chipset</b>	Intel® HD Graphics 500
<b>Spec. &amp; Resolution</b>	2 x HDMI 1.4b: Max. Resolution 3840x2160@30Hz 1 x DP (DVI-I/VGA Factory Option): Max. Resolution 1920 x 1080@60Hz
<b>Multiple Display</b>	Triple Display
Audio	
<b>Audio Codec</b>	Realtek ALC888S
<b>Audio Interface</b>	1 x Audio Jack (Mic-in + Line-Out Combo)
Certifications	
<b>Certification Information</b>	CE, FCC Class A
Ethernet	
<b>LAN Chipset</b>	Realtek RTL8111E Gigabit Ethernet
<b>Ethernet Interface</b>	10/100/1000 Base-Tx Gigabit Ethernet Compatible
<b>LAN Port</b>	2 x RJ45
Power Requirement	
<b>DC Input</b>	+12V
<b>DC Input Connector</b>	Lockable DC Jack
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 12V/5A AC-DC 60W Adapter
Mechanical & Environmental	
<b>Operating Temperature</b>	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
<b>Storage Temperature</b>	-30~70C° (-22°F ~ 158°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	115mm x 111mm x 58mm (4.53" x 4.37" x 2.28")



<b>Weight</b>	0.85KG (1.87lbs)
<b>Vibration Test</b>	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
<b>Shock Test</b>	With SSD : 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
<b>Mounting Kit</b>	VESA/Din Rail Kit
<b>Drop</b>	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
<b>Construction</b>	Aluminum + Metal
<b>Software Support</b>	
<b>OS Information</b>	Win 10, Linux
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>NUC-APL-34-B1-1R Intel® Celeron® Processor J3455 Fanless NUC System</p> <p>NUC-APL-33-B1-1R Intel® Celeron® Processor N3350 Fanless NUC System</p> <p>E1702031831R Australia Power Cord</p> <p>E1702031833R USA Power Cord</p> <p>E1702031834R Japan Power Cord</p> <p>E170P060380R UK Power Cord</p> <p>E1702031000R EU Power Cord</p>



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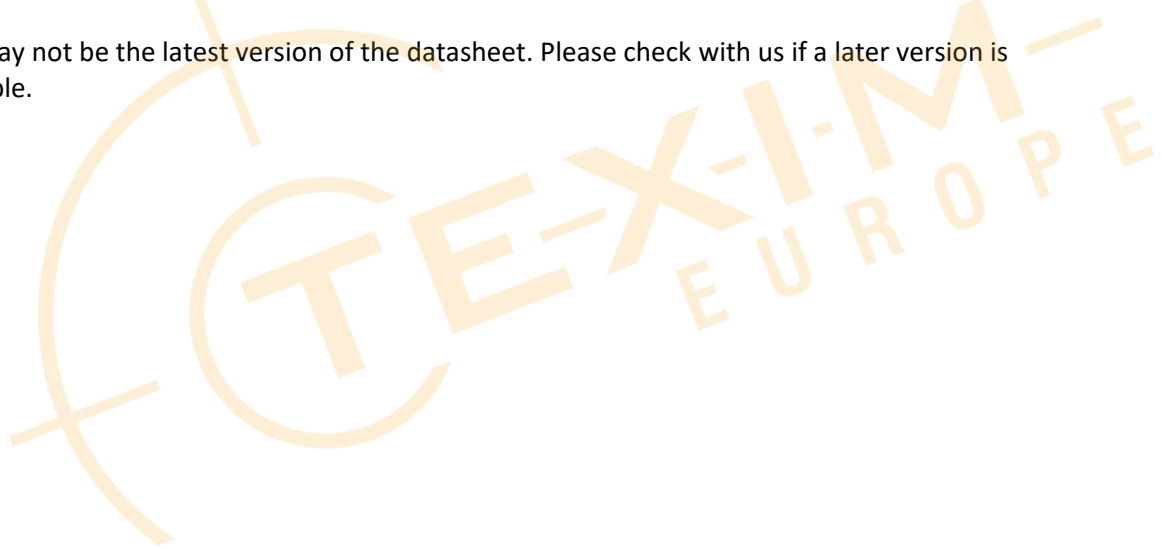
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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