



## LPC-1231

12.1" Intel® Celeron® SoC N3000 family Processor  
Fanless Rugged Touch Panel PC

- > Onboard Intel® Celeron® SoC N3000 family BGA Processor
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1600 SDRAM
- > 4 USB, 2 COM
- > Dual RealTek RTL8119 Gigabit LAN
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Backlight Controlled by PWM
- > IP65 Compliant Front Panel
- > Timer-Power-On
- > TPM 1.2 Function (Optional)

### + Spec

System	
Processor	Intel® Pentium®/Celeron® processor
System Memory	1 x 204-Pin DDR3L 1600MHz SO-DIMM up to 8 GB
I/O Chip	Nuvoton NPCE388N
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
Expansion	
Expansion	1 x Mini PCIe Support mSATA 1 x Mini PCIe Supports SIM Card
Storage	
Storage	1 x 2.5" Drive Bay 1 x Onboard eMMC (32G reserved)
I/O	
USB	4 x USB 3.0
SATA	1 x SATA III
COM Port	2 x RS-232/422/485 (Factory Optional)
Other	1 x HDMI 1 x Knockouts for Antenna Mounting
Display	
Chipset	Intel® Braswell SoC integrated Graphics Supports dual display
Resolution	HDMI:Max. resolution 1920x1200 @ 60Hz
Audio	
Chipset	Realtek ALC233 supports 2.1-CH
Audio Interface	Line-Out
Ethernet	
Chipset	2 x Realtek RTL8119
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Type	AT/ATX (ATX is default setting)
Operating Temp	-10°C ~ 50°C
Storage Temp	-20°C ~ 60°C
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Weight	2.84 Kgs
Mounting Kit	Wall / Stand / VESA 75mm x 75mm
Dimension (L x W x H)	283 x 222 x 45 mm
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
System Fan	Fanless
Construction - Front	Silver Aluminum
Construction - Rear	Black
Certifications	
Certification Information	CE FCC Class B
Software Support	
OS Information	Win 7 (32 bit), Win 8 (32 bit), Linux(64 bit)
Power Requirement	



<b>Power Connector</b>	Lockable DC Jack
<b>Power Requirement</b>	+12V ~ +26V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI3.0 Compliant
<b>Adapter</b>	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
<b>Panel</b>	
<b>LCD Size</b>	12.1", 4:3
<b>Display Type</b>	XGA
<b>Resolution</b>	1024 x 768
<b>Pixel pitch</b>	0.240mm(H) x 0.240mm(V)
<b>Luminance</b>	600 cd/m <sup>2</sup>
<b>Contrast ratio</b>	700
<b>Viewing angle</b>	70 (U), 70 (D), 80 (L), 80 (R)
<b>Response time</b>	16 ms
<b>Backlight</b>	LED
<b>Touch Type</b>	5 Wires resistive
<b>Touch Light Transmission</b>	80%
<b>Touch Controller</b>	Onboard USB touch (EETI)

### + Ordering

LPC-1231  
Intel Atom™ SoC N3000 family Processor/4G DDR3L/2GLAN/COM/12~26V input/12V Adaptor

ACC-LPC-  
WiFiUSB-3R USB WiFi 802.11 b/g/n Module w/ Antenna, Cable

ACC-ARM-D22R  
VESA STAND, 75x75 & 100x100 mm

ACC-ARM-D29R  
ARM A800B VESA standard 75\*75 & 100\*100mm

ACC-LPC-12-PMT-02R  
Back Panel Mount Kit for LPC-12 Series, w/IP-65