



## APC-2138

21.5" 11th Gen Intel® Core™ Processor i5/i3  
Expandable Ultra light Multi-Touch Fanless Panel PC

- > 21.5" PCAP Multi Touch
- > Onboard 11th Gen. Intel® Core™ SoC i5/i3 & Celeron® BGA Processor
- > 2 x 260-pin DDR4 3200 MHz SO-DIMM supports up to 64GB
- > 2 x GLAN, 2 x DP++, 4 x USB
- > 2 x 2W Speakers
- > Front IP65, Fanless System & VESA Compliance
- > 1 x 2.5" SSD w/Service Window
- > Optional WiFi 802.11 ac/a/b/g/n

### + Spec

-System Information-	
<b>Processor</b>	Intel® Core™ i5-1135G7 (up to 4.2GHz, quad-core, 8M Cache, TDP: 15W) Intel® Core™ i3-1115G4 (up to 3.0GHz, dual-core, 6M Cache, TDP: 15W)
<b>Platform Controller Hub</b>	Intel® Tiger Lake SoC integrated
<b>System Memory</b>	2 x 260-pin DDR4 3200 MHz SO-DIMM supports up to 64GB (non ECC only)
<b>I/O Chipset</b>	EC iTE IT8528E
<b>Watchdog Timer</b>	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	CPU temperature monitoring Voltages monitoring CPU fan speed control
<b>TPM</b>	Onboard NuvoTon NPCT754AADYX support TPM 2.0
<b>SBC</b>	EMX-TGLC
Expansion	
<b>Expansion</b>	1 x M.2 Type B 3042/3052/2242/2260/2280 support WWAN+GNSS or NVMe SSD 1 x M.2 Key E 2230 support WiFi module and CNVi (1 x PCI-e x1 & USB 2.0 Signal)
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay 1 x M.2 slot
Panel	
<b>LCD Size</b>	21.5"
<b>Display Type</b>	Full HD
<b>Resolution</b>	1920x1080
<b>Pixel pitch</b>	248.25um (H) x248.25um (V)
<b>Luminance</b>	250cd/m²
<b>Contrast ratio</b>	3000
<b>Viewing angle</b>	89 (U), 89 (D), 89 (L), 89 (R)
<b>Response time</b>	18ms
<b>Backlight</b>	LED
<b>Touch Type</b>	Projective Capacitive
<b>Touch Light Transmission</b>	89 %
I/O	
<b>USB Port</b>	4 x USB 3.0
<b>Display Port</b>	2 x DP ++
Display	
<b>Graphic Chipset</b>	Intel® 11th Generation CPU integrated
<b>Spec. &amp; Resolution</b>	DP1+DP2 (DP1.4): Max: 7680 x 4329@60 Hz DP3+DP4 (DP1.4): Max: 7680 x 4329@60 Hz Single DP port (2021/2 Lab test): 5120 x 2160 @60 Hz, DVT check Max: 7680 x 4329@60 Hz Note: This resolution is actual test result. Intel resolution as below: 2 x DP++ : 1920 x 1080@60 Hz 2 x DP: 4096 x 2304@60 Hz LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS) eDP 4096 x 2304@60 Hz *2 x DP++, LVDS, eDP Default (Thin Mini ITX). Optional: DP3 and DP4 for full height (Maximum: 6 for quadruple independent displays)
Audio	
<b>Audio Codec</b>	Realtek ALC897 co-lay ALC888S & Tempo 92HD73
<b>Speaker Output</b>	2 x 2W
Certifications	
<b>Certification Information</b>	CE FCC Class B
Ethernet	



<b>LAN Chipset</b>	1 x Intel® I225IT 2.5 Gigabit Ethernet 1 x Intel® I219LM Gigabit Ethernet PHY
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
<b>Power Requirement</b>	
<b>DC Input</b>	+12V~24V
<b>DC Input Connector</b>	4-pin din
<b>Adapter</b>	Input:100 ~ 240Vac/ 50 ~ 60Hz Output:90W Adapter (24V @ 3.75A Adapter) AC-DC Adapter
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	0°C ~ 40°C (32°F ~ 104°F)
<b>Storage Temperature</b>	-10°C ~ 60°C (14°F ~ 140°F)
<b>Operating Humidity</b>	0% @ 90% Relative Humidity, Non-condensing
<b>Weight</b>	6.3 Kgs
<b>Vibration Test</b>	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
<b>Shock Test</b>	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
<b>IP Rating</b>	Front IP65
<b>Mounting Kit</b>	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm
<b>Power Mode</b>	AT/ATX
<b>System Fan</b>	Fanless
<b>Construction - Front</b>	Plastic- Black
<b>Construction - Rear</b>	Plastic- Black
<b>Dimension</b>	539.6 * 342.6 * 45.2 mm
<b>Fanless</b>	Yes
<b>Software Support</b>	
<b>OS Information</b>	Win10 64bit, Win11 64bit
<b>Ordering Information</b>	
<b>Ordering Information</b>	APC-2138-C15-A1R 21.5" 1920x1080 Projected Capacitive Touch Panel PC (Plastics, Black), Intel Core i3-1115G4/4GB Memory/4USB3.0/2LAN/2DP/SPK/90W Power adapter  APC-2138-C35-A1R 21.5" 1920x1080 Projected Capacitive Touch Panel PC (Plastics, Black), Intel Core i5-1135G7/4GB Memory/4USB3.0/2LAN/2DP/SPK/90W Power adapter