



## ESM-APLC

Intel® Celeron®N3350 / Pentium®N4200 SoC  
Processor Type6 COMe Compact Module

- > Onboard Intel® Celeron®N3350 / Pentium® N4200 SoC BGA Processor
- > 1 Sockets 204-pin, SO-DIMM up to 8GB DDR3L 1866 SDRAM
- > Support Dual Channel 18/24 bit LVDS, Display Port, HDMI, VGA, eDP (Optional)
- > Intel I211 Gigabit Ethernet
- > 2 SATA 3.0, 8 USB 2.0, 4 USB 3.0, 8-bit GPIO
- > HD Audio Interface
- > +9~+19V Wide Range Power Input
- > Type 6 Rev 2.1 Pin-out
- > Compact Size: 95x95mm
- > TPM2.0 (Optional)
- > eMMC 5.0 up to 64GB (optional)

### + Spec

System	
<b>Processor</b>	Intel® Pentium® N4200 1.1GHz / 6W Intel® Celeron® N3350 1.1 GHz / 6W
<b>System Chipset</b>	Apollo Lake SoC integrated
<b>System Memory</b>	1 x 204-Pin DDR3L 1866 SO-DIMM up to 8 GB
<b>I/O Chip</b>	ITE IT8528VG
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	
<b>Expansion</b>	3 Ports (Optional 4 PCIe1x or 1 PCIe4x while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s
I/O	
<b>USB</b>	8 x USB 2.0 4 x USB 3.0
<b>SATA</b>	2 x SATA III
<b>COM Port</b>	1 x UART
<b>DIO</b>	1 x 8bit GPIO
<b>MIO</b>	1 x SMBus 1 x LPC 1 x I2C
<b>Other</b>	eMMC 5.0 up to 64GB (optional)
Display	
<b>Chipset</b>	Apollo lake SoC integrated Graphics
<b>Resolution</b>	VGA: Max. resolution 1920x1200 @ 60Hz LVDS: Max. resolution 1920x1200 @ 60Hz HDMI: Max. resolution 3840x2160 @ 30Hz DP: Max. resolution 4096x2160 @ 60Hz
<b>LVDS</b>	CH7511B(eDP to LVDS)
<b>DDI</b>	HDMI DP DisplayPort
Audio	
<b>Audio Interface</b>	Intel® High Definition Audio
Ethernet	
<b>Chipset</b>	1 x Intel WG I211AT
<b>Ethernet Interface</b>	10/100/1000 Base-Tx Gigabit Ethernet Compatible
Mechanical & Environmental	
<b>Power Requirement</b>	+9V ~ +19V
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0°C ~ 60°C (32°F ~ 140°F) (Standard)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (L x W)</b>	3.7" x 3.7" (95mm x 95mm)
<b>Weight</b>	0.44lbs(0.2kg)
Certifications	
<b>Certification Information</b>	CE FCC Class B



 Ordering

ESM-APLC-N42-A1R  
Intel® Pentium® SoC Processor N4200 Type6 COMe Compact Module

ESM-APLC-N33-A1R  
Intel® Celeron® SoC Processor N3350 Type6 COMe Compact Module

EEV-EX14-A3R  
mATX Ev. Board for COMe Type 6 A2

ACC-ESMAPLC-SK-1R  
Heatsink for ESM-APLC W/O FAN H=22.5mm

ACC-ESMAPLC-SD-1R  
Heatspreader for ESM-APLC W/O FAN H=8.0mm