

# ESM-APLC

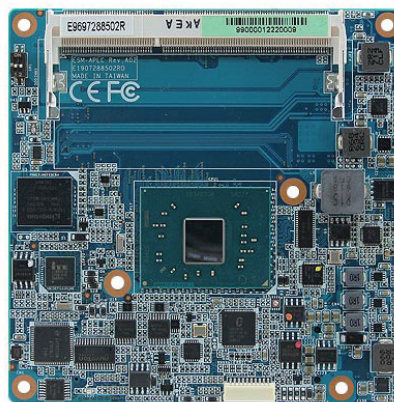
## Compact COM Express Module

Intel® Celeron® N3350 / Pentium® N4200 / Atom™ E Series SoC Processor Type6 COMe Compact

\* This is an OEM Only Product

## Features

- Onboard Intel® Celeron®N3350 / Pentium® N4200 / Atom™ E Series SoC BGA Processor
- 1 x 204-pin SoDIMM socket supports up to 8GB DDR3L 1600 & 1333MHz SDRAM
- Supports Dual Channel 18/24 bit LVDS, Display Port, HDMI, VGA, eDP (Optional)
- Intel® I211 Gigabit Ethernet
- 2 x SATA 3.0, 8 x USB 2.0, 4 x USB 3.0, 8-bit GPIO
- HD Audio Interface
- 9~19V Wide Range Power Input
- Type 6 Rev 2.1 Pin-out
- Compact Size: 3.7" x 3.7" (95mm x 95mm)
- TPM2.0 (Optional)
- eMMC 5.0 up to 64GB (Optional)



## Specifications

### System

<b>CPU</b>	Intel® Pentium N4200 4-Core Processor 2.5 GHz (Max Speed) Intel® Celeron N3350 2-Core Processor 2.4 GHz (Max Speed)  Please note: CPU coolers are not included. Please see Ordering Info tab for more details.
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>System Chipset</b>	Intel® Apollo Lake SoC Integrated
<b>System Memory</b>	1 x 204-Pin DDR3L 1600&1333MHz SO-DIMM, supports up to 8GB (Non-ECC)
<b>Audio</b>	Intel® High Definition Audio
<b>Ethernet</b>	LAN1: Intel® WGI211AT Gigabit Ethernet Controller
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>Expansion</b>	3 Ports (Optional 4 PCIe x1 or 1 PCIe x4 while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s
<b>I/O Chip</b>	ITE IT8528VG
<b>OS Support</b>	Windows® 10 Enterprise (64-bit) Linux (Kernel>4.5)

### Display

<b>Chipset</b>	Intel® 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>Multiple Display</b>	HDMI DP DisplayPort
<b>LCD Interface</b>	CH7511B (eDP to LVDS)

### Onboard 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>	2 x COM Ports (RX/TX only)
<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)

### Mechanical & Environment

<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)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Form Factor</b>	COM Express Modules
<b>Dimensions</b>	3.7" x 3.7" (95mm x 95mm)
<b>Certification Information</b>	CE FCC Class B
<b>Weight</b>	0.44 lbs (0.2kg)

### Ordering Info

\* This is an OEM C

<b>-N3350</b>	Intel®Celeron N3350 1.1GHz Dual Core Type6 COMe Compact Module
<b>ESM-APLC-N4200</b>	Intel®Celeron N4200 1.1GHz Quad Core Type6 COMe Compact Module
<b>ESM-APLC-J3455</b>	Intel®Celeron J3455 1.1GHz Quad Core Type6 COMe Compact Module
<b>EEV-EX14-A3R</b>	mATX Ev. Board for COMe Type 6 A2
<b>ACC-ESMAPLC-SK-1R</b>	Heatsink for ESM-APLC W/O FAN H=22.5mm

\* All product specifications and images are subject to change without notice.  
Last update: 2021/02/12