

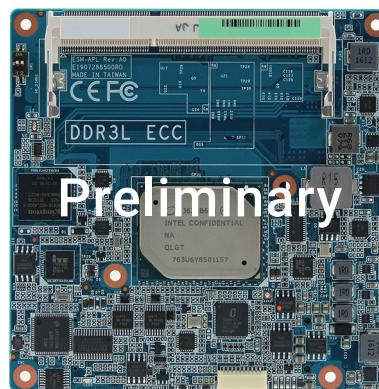
# ESM-APLC

Compact COM Express Module

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

## Features

- Onboard Intel® Celeron®N3350 / Pentium® N4200 / Atom™ E Series SoC BGA Processor
- 1 204-pin So-DIMM socket supports up to 8GB DDR3L 1866 SDRAM
- Supports 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: 3.7" x 3.7" (95mm x 95mm)



## Specifications

### System

CPU	Intel Pentium N4200 4-Core Processor 2.5 GHz (Max Speed) Intel Celeron N3350 2-Core Processor 2.4 GHz (Max Speed) Intel Atom x7 E3950 4-Core Processor 2.0 GHz (Max Speed) Intel Atom x5 E3940 2-Core Processor 1.8 GHz (Max Speed) Intel Atom x5 E3930 2-Core Processor 1.8 GHz (Max Speed)
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BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
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System Chipset	Apollo Lake SoC Integrated
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System Memory	1 x 204-Pin DDR3L 1866 So-DIMM supports up to 8 GB
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Expansion	3 x (Optional 4 PCIe x1 or 1 PCIe x4 while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s
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I/O Chip	ITE IT8528VG
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OS Support	Win 10, Win 8.1, Win 7, Linux
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### Display

Chipset	Apollo lake SoC integrated Graphics
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Resolution	VGA: Max. resolution 1920x1200 @ 60Hz LVDS: Max. resolution 1920x1200 @ 60Hz HDMI: Max. resolution 3840x2160 @ 30Hz DP: Max. resolution 4096x2160 @ 60Hz
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Multiple Display	HDMI DP DisplayPort
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LCD Interface	CH7511B (eDP to LVDS)
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### Onboard I/O

MIO	2 x SATA III, 1 x 8bit GPIO, 1 x SMBus, 1 x LPC, 1 x I2C
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USB	8 x USB 2.0, 4 x USB 3.0
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Other	1 x UART
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### Audio

HD Codec	Intel® High Definition Audio
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Audio Interface	Line-out, Line-in, Mic-in
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### Ethernet

LAN Chip	1 x Intel WGI211AT
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Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible
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### Mechanical & Environment

Power Requirement	+9V ~ +19V
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ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
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Power Type	AT/ATX
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Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
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Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
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Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
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Certification	CE FCC Class B
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Form Factor	COM Express Modules
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Dimensions (L) x (W)	3.7" x 3.7" (95mm x 95mm)
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Weight	0.44 lbs (0.2kg)
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\* All product specifications and images are subject to change without notice.  
Last update: 9/29/2017