



ESM-APLC

Intel® Celeron®N3350,J3455 / Pentium®N4200 SoC Processor Type6 COMe Compact Module

- > Onboard Intel® Celeron®N3350,J3455 / Pentium® N4200 SoC BGA Processor
- > 1 Sockets 204-pin, SO-DIMM up to 8GB DDR3L 1600 & 1333MHz 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 Information-

Processor	Intel® Pentium® N4200 4C 1.1GHz / 6W Intel® Celeron® N3350 2C 1.1 GHz / 6W Intel® Celeron® J3455 4C 1.5 GHz / 10W
Platform Controller Hub	Apollo Lake SoC integrated
System Memory	1 x 204-Pin DDR3L 1600&1333MHz SO-DIMM, supports up to 8GB (Non-ECC)
I/O Chipset	ITE IT8528VG
BIOS Information	AMI uEFI BIOS, 128Mbit SPI Flash ROM

Expansion

Expansion	3 Ports (Optional 4 PCIe1 or 1 PCIe4 while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s
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I/O

USB Port	8 x USB 2.0 4 x USB 3.0
COM Port	2 x COM Ports (RX/TX only)
SATA	2 x SATA III
DIO	1 x 8bit GPIO
MIO	1 x SMBus 1 x LPC 1 x I2C
Other	eMMC 5.0 up to 64GB (optional)

Display

Graphic Chipset	Apollo lake SoC integrated Graphics
Spec. & Resolution	VGA: Max. resolution 1920x1200 @ 60Hz LVDS: Max. resolution 1920x1200 @ 60Hz HDMI: Max. resolution 3840x2160 @ 30Hz DP: Max. resolution 4096x2160 @ 60Hz
LVDS	CH7511B(eDP to LVDS)
DDI	HDMI DP DisplayPort

Audio

Audio Interface	Intel® High Definition Audio
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Certifications

Certification Information	CE FCC Class B
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Ethernet

LAN Chipset	1 x Intel WGI211AT
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

Operating Temperature	0°C ~ 60°C (32°F ~ 140°F) (Standard)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.44lbs(0.2kg)
Power Requirement	+9V ~ +19V
ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Mode	AT/ATX
Dimension (L x W)	3.7" x 3.7" (95mm x 95mm)

Software Support

OS Information	Windows® 10 Enterprise (64-bit) Linux (Kernel>4.5)
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Ordering Information



Ordering Information

ESM-APLC-N42-A2R
Intel® Pentium® SoC Processor N4200 Type6 COMe Compact Module

ESM-APLC-N33-A2R
Intel® Celeron® SoC Processor N3350 Type6 COMe Compact Module

ESM-APLC-N34-A2R
Intel® Celeron® SoC Processor J3455 Type6 COMe Compact Module

EEV-EX14-B1R
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