



## 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-             |   |
|----------------------------------|---|
| <b>Processor</b>                 | Intel® Pentium® N4200 4C 1.1GHz / 6W<br>Intel® Celeron® N3350 2C 1.1 GHz / 6W<br>Intel® Celeron® J3455 4C 1.5 GHz / 10W   |
| <b>Platform Controller Hub</b>   | Apollo Lake SoC integrated  |
| <b>System Memory</b>             | 1 x 204-Pin DDR3L 1600&1333MHz SO-DIMM,supports up to 8GB (Non-ECC)   |
| <b>I/O Chipset</b>               | ITE IT8528VG  |
| <b>BIOS Information</b>          | AMI uEFI BIOS, 128Mbit SPI Flash ROM  |
| Expansion                        |   |
| <b>Expansion</b>                 | 3 Ports (Optional 4 PCIe1 or 1 PCIe4 while removing Ethernet), compliant to PCIe Gen2 5.0 GT/s  |
| I/O                              |   |
| <b>USB Port</b>                  | 8 x USB 2.0<br>4 x USB 3.0  |
| <b>COM Port</b>                  | 2 x COM Ports (RX/TX only)  |
| <b>SATA</b>                      | 2 x SATA III  |
| <b>DIO</b>                       | 1 x 8bit GPIO   |
| <b>MIO</b>                       | 1 x SMBus<br>1 x LPC<br>1 x I2C   |
| <b>Other</b>                     | eMMC 5.0 up to 64GB (optional)  |
| Display                          |   |
| <b>Graphic Chipset</b>           | Apollo lake SoC integrated Graphics   |
| <b>Spec. &amp; Resolution</b>    | VGA: Max. resolution 1920x1200 @ 60Hz<br>LVDS: Max. resolution 1920x1200 @ 60Hz<br>HDMI: Max. resolution 3840x2160 @ 30Hz<br>DP: Max. resolution 4096x2160 @ 60Hz |
| <b>LVDS</b>                      | CH7511B(eDP to LVDS)  |
| <b>DDI</b>                       | HDMI<br>DP<br>DisplayPort   |
| Audio                            |   |
| <b>Audio Interface</b>           | Intel® High Definition Audio  |
| Certifications                   |   |
| <b>Certification Information</b> | CE<br>FCC Class B   |
| Ethernet                         |   |
| <b>LAN Chipset</b>               | 1 x Intel WGI211AT  |
| <b>Ethernet Interface</b>        | 10/100/1000 Base-Tx Gigabit Ethernet Compatible   |
| Mechanical & Environmental       |   |
| <b>Operating Temperature</b>     | 0°C ~ 60°C (32°F ~ 140°F)<br>(Standard)   |
| <b>Storage Temperature</b>       | -40°C ~ 75°C (-40°F ~ 167°F)  |
| <b>Operating Humidity</b>        | 40°C @ 95% Relative Humidity, Non-condensing  |
| <b>Weight</b>                    | 0.44lbs(0.2kg)  |
| <b>Power Requirement</b>         | +9V ~ +19V  |
| <b>ACPI</b>                      | Single power ATX Support S0, S3, S4, S5<br>ACPI 3.0 Compliant   |
| <b>Power Mode</b>                | AT/ATX  |
| <b>Dimension (L x W)</b>         | 3.7" x 3.7" (95mm x 95mm)   |
| Software Support                 |   |
| <b>OS Information</b>            | Windows® 10 Enterprise (64-bit)<br>Linux (Kernel>4.5)   |
| Ordering Information             |   |



|                             |   |
|-----------------------------|---|
| <b>Ordering Information</b> | ESM-APLC-N42-A2R<br>Intel® Pentium® SoC Processor N4200 Type6 COMe Compact Module |
|                             | ESM-APLC-N33-A2R<br>Intel® Celeron® SoC Processor N3350 Type6 COMe Compact Module |
|                             | ESM-APLC-N34-A2R<br>Intel® Celeron® SoC Processor J3455 Type6 COMe Compact Module |
|                             | EEV-EX14-B1R<br>mATX Ev. Board for COMe Type 6 A2                                 |
|                             | ACC-ESMAPLC-SK-1R<br>Heatsink for ESM-APLC W/O FAN H=22.5mm                       |
|                             | ACC-ESMAPLC-SD-1R<br>Heatspreader for ESM-APLC W/O FAN H=8.0mm                    |

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