

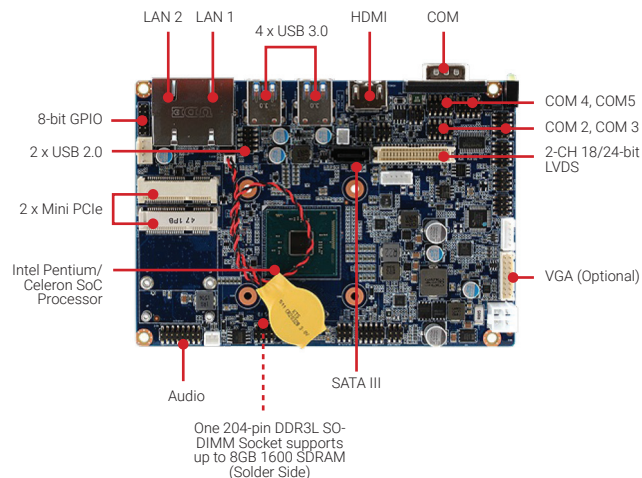
# ECM-BSW

3.5" Single Board Computer

Intel® Pentium®/ Celeron® N3000 Series SoC Processors 3.5 inch Single Board Computer (SBC)

## Features

- Onboard Intel® Pentium®/Celeron® SoC BGA Processor
- One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1600 SDRAM
- Dual Display (HDMI, LVDS)
- 1 SATA III, 4 USB 3.0, 2 USB 2.0, 5 COM, 2 x Mini-PCIe, 8-bit GPIO
- Fanless
- TPM 1.2 function (Optional)



## Specifications

### System

|                |  |
|----------------|--|
| CPU            | Intel® Pentium® N3700 1.6GHz SoC Processor<br>Intel® Celeron® N3160 1.6GHz SoC Processor                                       |
| BIOS           | Insyde 64Mbit SPI Flash ROM  |
| System Chipset | SoC  |
| I/O Chip       | Nuvoton NPCE388N   |
| System Memory  | 1 x 204-Pin DDR3L SODIMM Socket supports up to 8 GB 1600MHz DDR3L  |
| Expansion      | 2 x Mini PCIe<br>1 x Full-size Mini PCIe with mSATA Supported<br>1 x Half-size Mini PCIe<br>1 x mSATA supported from Mini PCIe |

### OS Support

|         |                     |
|---------|---------------------|
| OS Info | Win 8, Win 7, Linux |
|---------|---------------------|

### I/O

|       |   |
|-------|---|
| MIO   | 1 x LPC, 1 x SPI  |
| USB   | 2 x USB 2.0, 4 x USB 3.0                                |
| DIO   | 8-bit GPIO  |
| Other | 1 x SATA III, 1 x RS-232/422/485, 4 x RS-232, 2 x RJ-45 |

### Display

|                  |  |
|------------------|--|
| Chipset          | Intel® Braswell SoC integrated Graphics<br>Supports dual display   |
| Resolution       | HDMI: Max. resolution 1920x1080 @ 60Hz<br>LVDS: Max. resolution 1920x1080 @ 60Hz<br>Dual-channel 18/ 24-bit LVDS<br>VGA by pin header (Optional) |
| Multiple Display | LVDS + HDMI  |
| LCD Interface    | Built-in Touch controller (optional):<br>EETI ETP-CP-MER4485XRU<br>With 5-pin 2.0mm Box Header (Can be Selected to Support 4/5Wire Touch Screen) |

### Audio

|                 |                                 |
|-----------------|---------------------------------|
| HD Codec        | Realtek ALC233, supports 2.1-CH |
| Audio Interface | Audio Amp.: 2W                  |

### Ethernet

|                    |  |
|--------------------|--|
| LAN Chip           | 2 x Realtek 8119I  |
| Ethernet Interface | 2 x RJ-45, 10/100/1000 Base-Tx Gigabit Ethernet Compatible |

### Mechanical & Environment

|                    |   |
|--------------------|---|
| Power Requirement  | +12V ~ +26V   |
| ACPI               | Single Power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant |
| Power Type         | AT/ATX  |
| Operating Temp.    | 0 ~ 60°C (32 ~ 140°F)   |
| Storage Temp.      | -40 ~ 75°C (-40 ~ 167°F)                                      |
| Operating Humidity | 0%~90% Relative Humidity, Non-condensing                      |
| Form Factor        | 3.5" Single Board Computer (SBC)                              |
| Dimensions         | 5.7" x 4" (146mm x 101mm)                                     |
| Weight             | 0.44lbs (0.2kg)   |

### Ordering Info

|               |   |
|---------------|---|
| ECM-BSW-N3160 | Intel® Braswell N3160 1.6GHz Quad Core 3.5" SBC |
| ECM-BSW-N3700 | Intel® Braswell N3700 1.6GHz Quad Core 3.5" SBC |

\* All product specifications and images are subject to change without notice.  
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