

# Intel® Braswell Series Processor

## LV-67P



## Features

- Intel® Braswell Series Processor N3710/X5-E8000
- 2 x DDR3L SO-DIMM 1600 MHz up to 8GB
- Integrated DVI, HDMI, DisplayPort/LVDS/CRT for Triple display supports
- 2 x Intel® Gigabit LAN,
- 1 x MiniPCIe, 1 x mSATA
- 2 x SATA3, 4 x USB2.0, 4 x USB3.0, 6 x COM, 1 x LPC, 1 x PS/2
- Support Watchdog Timer
- Support 4K resolution
- Standard 24-pin ATX power supply or 4-pin 6~30V

## System

<b>Processor</b>	Intel® Braswell Series Processor N3710/X5-E8000, FCBGA1170 package
<b>Chipset</b>	Braswell SoC
<b>Memory</b>	2 x DDR3L DIMM 1600 MHz up to 8GB, Support Non-ECC, unbuffered memory only. <i>(2 x memory must be the same brand &amp; same capacity)</i>
<b>Watchdog Timer</b>	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
<b>Real Time Clock</b>	Chipset integrated RTC with onboard lithium battery
<b>Expansion</b>	1 x MiniPCIe, 1 x Sim slot, 1 x PCIe X16 slot <i>(Only support 1 Lane)</i> 1 x mSATA <i>(Same signal with SATA3-2)</i>
<b>Graphics</b>	
<b>Chipset</b>	Intel® HD Graphics
<b>Display Interface</b>	1 x LVDS <i>(Note1)</i> /DisplayPort/VGA, 1 x HDMI, 1 x DVI-I
<b>LAN</b>	
<b>Chip</b>	2 x Intel® I210-AT Gigabit LAN

## I/O

<b>Serial ATA</b>	2 x SATA3
<b>Audio</b>	Realtek ALC262 HD Audio
<b>Internal I/O</b>	2 x SATA3, 4 x RS232, 4 x USB2.0, 1 x LPC 1 x GPIO, 1 x PS/2, 1 x SMBus, 1 x Audio, 1 x VGA <i>(Optional)</i> , 1 x LVDS <i>(Optional)</i> , 1 x LCD inverter <i>(Optional)</i> .
<b>Rear I/O</b>	4 x USB3.0, 2 x LAN, 1 x Audio, 1 x RS232 1 x RS232/422/485, 1 x HDMI, 1 x DVI-I 1 x DisplayPort <i>(Optional)</i> .

## Mechanical & Environmental

<b>Power Requirement</b>	Standard 24-pin ATX power supply or 4-pin 6~30V
<b>Size</b>	170mm x 170mm (L x W)
<b>Temperature</b>	Operating within 0°C~60°C (32°F~140°F) Storage within -20°C~80°C (-4°F~176°F)
<b>Relative Humidity</b>	10%~90%, non-condensing

## Ordering Code

<b>LV-67PNX:</b>	With N3710 + Heat Sink, support HDMI, DVI-I, LVDS	Art.no. 149196
<b>LV-67PNP:</b>	With N3710 + Heat Sink, support HDMI, DVI-I, DP	Art.no. 149185
<b>LV-67PNT:</b>	With N3710 + Heat Sink, support HDMI, DVI-I, VGA	Art.no. 149197
<b>LV-67PEX:</b>	With X5-E8000 + Heat Sink, support HDMI, DVI-I, LVDS	Art.no. 149198
<b>LV-67PEP:</b>	With X5-E8000 + Heat Sink, support HDMI, DVI-I, DP	Art.no. 149199
<b>LV-67PET:</b>	With X5-E8000 + Heat Sink, support HDMI, DVI-I, VGA	Art.no. 149200

**Note1:** Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS