

Main Features

- On-board Intel® Pentium®/Celeron® N3000 product family (codename Braswell)
- 2 channel DDR3L without ECC/SO-DIMMs 1600MHz up to 8GB
- Support three independent displays with DisplayPort, HDMI, and VGA outputs
- 4 x PCIe x1, 4 x USB 3.0, 8 x USB 2.0, 2 x SATA 3.0 and GbE

Product Overview

The ICES 621 is a COM Express Type 6 compact size module which features quad-core/dual-core Intel® Pentium®/Celeron® N3000 product family and supports Dual DDR3L SO-DIMM memory Socket with Non-ECC support, up to 8GB 1600MHz. The ICES 621 integrates with Intel® Gen8 Graphic engine to support triple displays of CRT resolution up to up to 4K x 2K (HDMI), 32 x 16 (DP) SKU dependent. The high performance ICES 621 COM Express module also supports 4 x PCIe x1 /4 x USB 3.0 /8 x USB 2.0 /2 x SATA3.0/1xGbE.

Specifications

CPU Support

- Support Intel® Pentium®/Celeron® N3000 product family

Main Memory

- Dual 204-pin SO-DIMM socket supports up to 8 GB DDR3L 1600 MHz SDRAM

BIOS

- AMI System BIOS
- Plug and play support
- Advanced power management and advanced configuration & power interface support

Display

- Integrated Intel® Gen. 8 Graphics Engine support
- Two DP compatible with HDMI and DVI interfaces down to the carried board
- Standard VGA interface

COM Express Connector

- AB: HDA/2 x SATA 3.0/GbE/4 x PCIe x1/8 x USB 2.0/ LPC bus/ GPIO/ SMBus (I2C)/ SPI BIOS
- CD: 2 x DP (HDMI), 1 x VGA, 4 x USB 3.0

Power Requirements

- +12V, +5VSB, +3.3V RTC power

- Support both AT and ATX power supply mode
- One 3 pins 90 degree edge-connector for DC +12V fan

Dimensions

- 95mm (W) x 95mm (L)

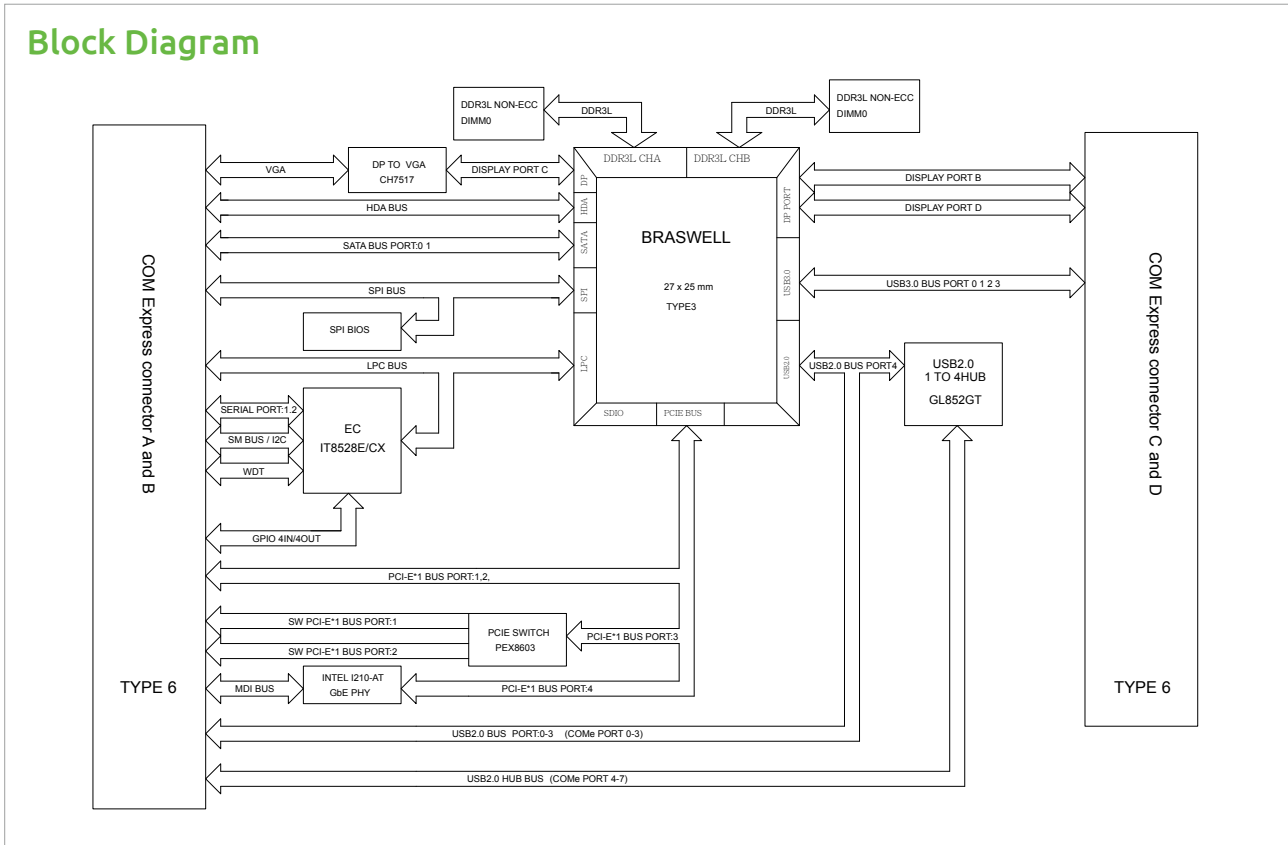
Environment

- Board level operating temperatures: -40°C to 65°C.
- Storage temperatures: -20°C to 85°C
- Relative humidity:
 - 10% to 90% (operating, non-condensing)
 - 5% to 95% (non-operating, non-condensing)

Certifications

- Meet CE/FCC Class B

Block Diagram



Ordering Information

- ICES 621 (P/N: 10K00062100X0)**
 COM Express Type 6, compact module, embedded Intel® Pentium processor N3150, support 2 channel DDR3L without ECC/SO-DIMMs 1600MHz up to 8GB, support 4 x PCIe x1/4 x USB 3.0/8 x USB 2.0/2 x SATA 3.0 and GbE/1 x VGA/2 x DP compatible with HDMI and DVI support 3 display
- ICES 621-N3050 (P/N: TBD)**
 COM Express Type 6, compact module, embedded Intel® Celeron® processor N3050, support 2 channel DDR3L without ECC/SO-DIMMs 1600MHz up to 8GB, support 4 x PCIe x1/4 x USB 3.0/8 x USB 2.0/2 x SATA 3.0 and GbE/1 x VGA/2 x DP compatible with HDMI and DVI support 3 display