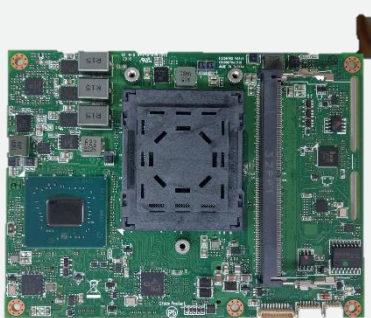




Main Features

- 12/13th Generation Intel® Core™/ Pentium®/ Celeron™ Processors, Socket LGA 1700 , PCH H610
- Dual Channel DDR5 SO DIMM, up to 64GB 4800MHz
- Support triple display VGA(default)/LVDS/eDP channel(optional) + 2 x DDI
- PCI Express Lane x16 (configurable: "1 x16" ; "2 x8" ; "1 x8 + 2 x4")
- PCI Express Lane x1 (Gen 3), 8x (can be configured x1,x2, x4)
- IO: 2 x UART(RX/TX), 8 Bit DIO, WDT, TPM(Optional)

Product Overview

The ICES676S Serial is a COM Express Type 6-pinouts Basic module which featuring Intel ® 610 series PCH chipset supports 12/13th Generation Intel® Core™/ Pentium®/ Celeron™ processors 2 channel DDR5 with non-ECC SO-DIMM 4800MHz up to 64GB. The ICES676S integrated Intel ®UHD Graphics engines supports or expands via PCI Express Graphic 1 x 16 lanes and support three DDI (Digital Display Interface) to follow the standard of PICMG COM3.0 specification. It allows type 6-pinout Carrier board to implement DDI and legacy VGA interface.

With the 125 x 95mm Type 6 COM Express modules. The high performance ICES676S COM Express Basic Module supports 1 x GbE LAN, 4 x USB3.1 GEN1, 8 x USB2.0, 4 x SATA3.0, 2 x UART(TX/RX), HD Audio, 8 bit DIO, TPM (Optional) ICEB 8060 as well as customized solution for your embedded projects.

Specifications

CPU / Chipset

- 12/13th Generation Intel® Core™/ Pentium®/ Celeron™ Processors, Socket LGA 1700 , PCH H610

Main Memory

- Dual Channel DDR5 262-pin SO DIMM, up to 64GB 4800MHz, non ECC

Display

- Intel® UHD Graphics 770 Xe graphics core
- 1 x VGA(default)/LVDS/eDP channel(optional) , resolution up to 1920x1080@60Hz,
- DDI x 2 Port configurable to HDMI1.4/DVI/Display port (HDMI 1.4 up to 4096 x 2160@30Hz/24bpp, DVI up to 1920 x1200@60Hz, DP up to 4096 x 2304 @ 60Hz)

BIOS

- AMI (UEFI)

COM Express Connector

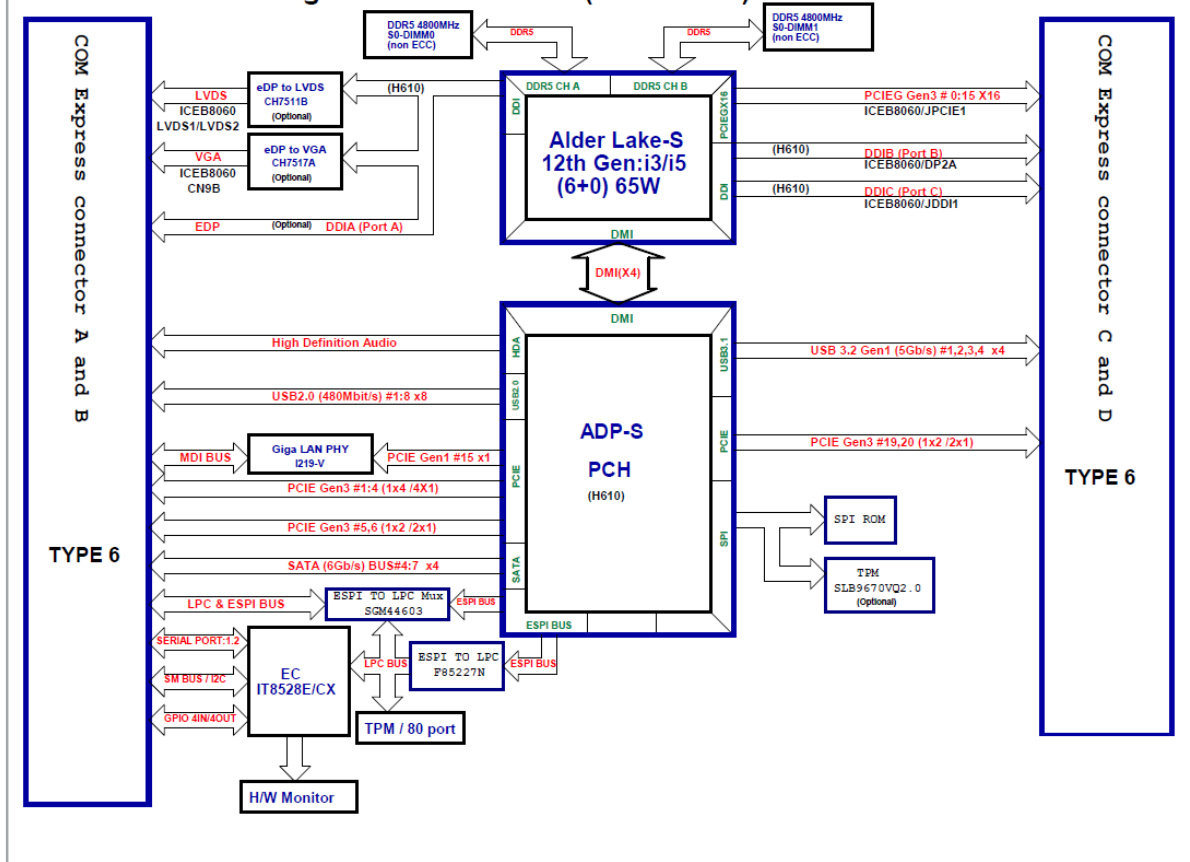
- AB :VGA(LVDS/eDP co-lay), 1 x GbE LAN, 8x PCIe x1, HD Audio, 4 x SATA III, 8 x USB2.0, LPC Bus, SM Bus/I2C, 2 x COM, GPIO 8bit
- CD : DDIB, DDIC, 1 x PCIe x16, 2 x PCIe x1, 4 x USB3.2 GEN1

Power Requirement

- +12VDC, +5Vsb
- Support both AT and ATX power supply mode

Black Diagram

ICES676S Block Diagram COMe TYPE 6 (95X125mm)



Dimension

- 125mm x 95mm

Environment

- Board level operation temperature : 0°C to 60°C
- Storage temperature : -40°C to 85°C
- Relative humidity:
 - 0% to 90% (operating, non-condensing)
 - 0% to 90% (non-operating, non-condensing)

Certifications

- Meet CE / FCC Class B

Ordering Information

Barebone

- ICES676S (P/N: 10K00067600X0)
 - 12/13th Generation Intel® Core™/ Pentium®/ Celeron™ Processors, Socket LGA 1700, PCH H610, 2 x DDR5 SO-DIMM(non ECC), Support multiple display from VGA(Default)/LVDS/eDP channel(optional) + 2 x DDI, 4x SATAIII, 1x GbE LAN, 2x COM, 4x USB3.1, 8x USB2.0, HD Audio, 8bit GPIO.

Optional Accessories

- CPU Cooler (P/N:5050200207X00)

Mouser Electronics

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