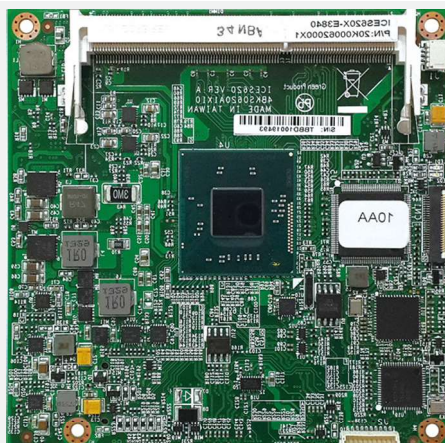


ICES622X

Preliminary

COM Express Type 6, COMPACT Size Module
with Intel® Atom™ X6000 Family Processor
DDR4/GbE/2SATA/6 X PCIe and DP/USB3.2



Final spec subjects to change without
notice for reference only

Main Features

- Intel® Atom™ Processors, X6000 Series Family support
- Dual channel DDR4 SO-DIMM memory up to 3200MT/s, IBECC/non ECC, max. 32GB
- Support 4 x PCIe1, 2 x USB3.2/8 x USB2.0/2 x SATA3.0 and GbE
- 2 x DP/VGA interfaces
- Dimension 95 x 95mm (W x L)

Product Overview

The ICES 622 is a COM Express Type 6 compact size module that features Intel® Atom™ X6000 processor, and two DDR4 SO-DIMM memory socket without ECC support, up to 32GB 3200MHz. The ICES 622 integrates with Intel® Gen11 LP Graphic to support dual displays of VGA resolution up to 1920 x 1200 resolutions and 2DPs link with HDMI1.4a/DP1.2 configurations. The high performance ICES 622 COM Express module supports SATA, USB2.0 & USB3.2/VGA/DP (HDMI)/PCIex1.

Specifications

CPU / Chipset

- Intel® Atom™ X6000 Firmly processor

Main Memory

- Two 260-pin SODIMM up to 32GB non ECC
- Dual Channel DDR4 DIMM memory up to 3200MHz

BIOS

- AMI (UEFI)

Power Requirement

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

Display

- Intel® Gen11 LP Graphics
- 1 x VGA connector (resolution up to 1920x1080@60Hz).
- 1 x LVDS connector(resolution up to 1920x1080@60Hz).
- DDI 1/2 Port configurable to HDMI1.4/DVI/Display port 1.4 HDMI up to 4096 x 2160@30Hz/24bpp, DVI up to 1920 x1200@60Hz, DP up to 4096 x 2304 @ 60Hz)

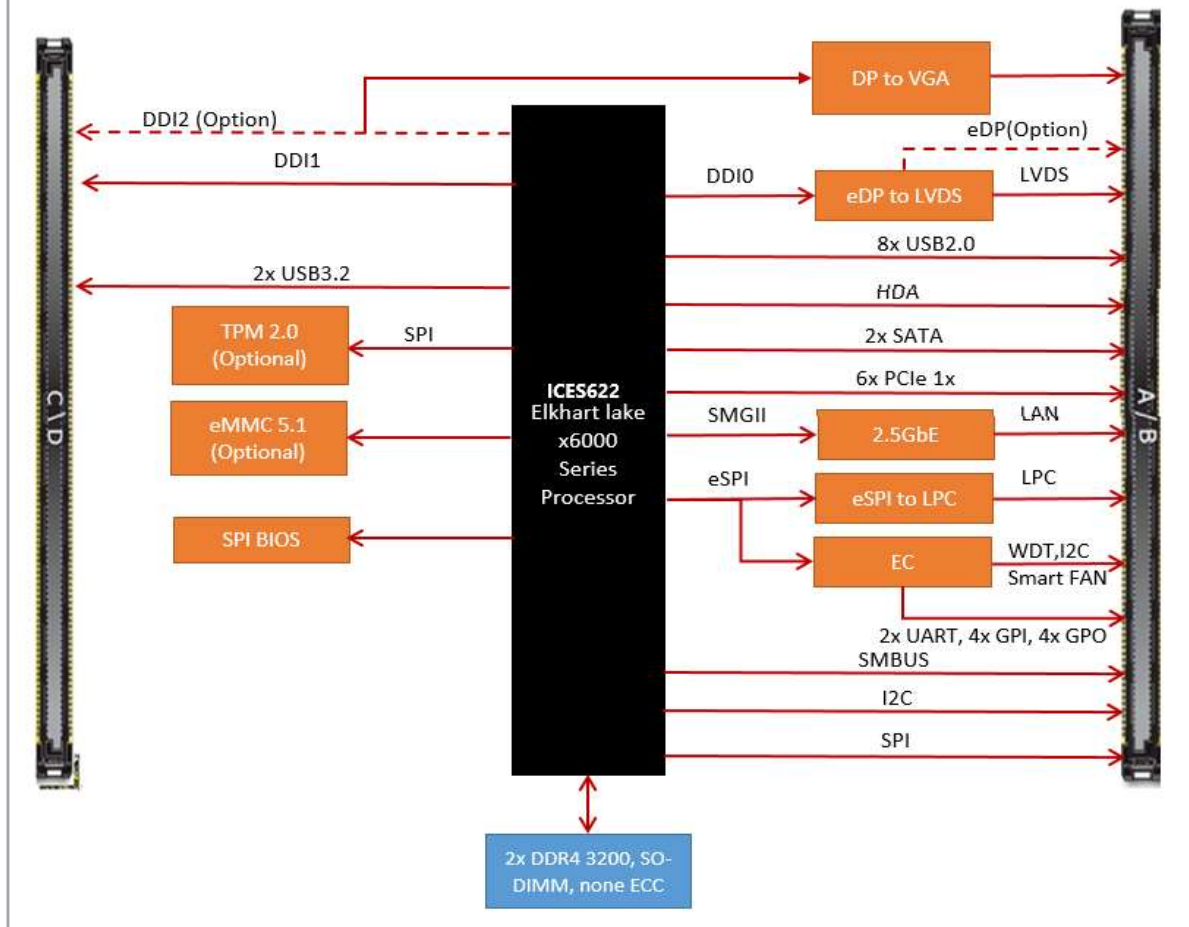
COM Express Connector

- AB :LVDS:(LVDS/eDP co-lay), VGA:(VGA/DDI port2 co-lay), 1 x GbE LAN, 6x PCIe x1, HD Audio, 2 x SATA III, 8 x USB2.0, LPC Bus, SM Bus/I2C, 2 x COM, GPIO 8bit
- CD : DDI1, DDI2, 2 x USB3.2



NEXCOM

Black Diagram



Dimensions

- 95mm x 95mm

Environment

- Board level operation temperature : -40°C to 85°C
- Storage temperature : -40°C to 85°C
- Relative humidity:
 - 0% to 90% (operating, non-condensing)
 - 0% to 95% (non-operating, non-condensing)

Certifications

- Meet CE / FCC Class B

Ordering Information

Barebone

- ICES622X (P/N: 10K00062201X0)
COM Express Type 6 compact size module that features Intel® Atom™ X6000 processor, and two DDR4 SO-DIMM memory socket without ECC support, up to 32GB 3200MHz, 2 x DDR5 SO-DIMM(non ECC), supports SATA, USB2.0 & USB3.2/VGA/DP (HDMI)/PCIex1.

Optional Accessories

- CPU Cooler (P/N:TBD)
- Heat spreader (P/N:TBD)