ECB-927A

COM Express Evaluation Carrier Board (Type 7)

CN26 PCIe [x16] (lane 32-35)

CN27 PCIe [x8] (lane 0-7)

CN9 PCIe [x4] (lane 12-15)

CN10 PCIe[x4] (lane 8-11)

COM port

LAN

USB3.2 x 2

10G LAN x 4   USB3.2 x 2
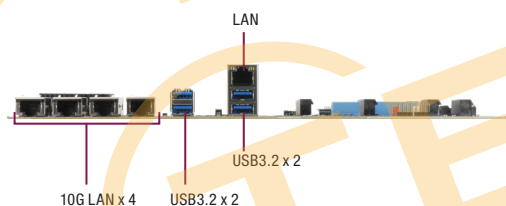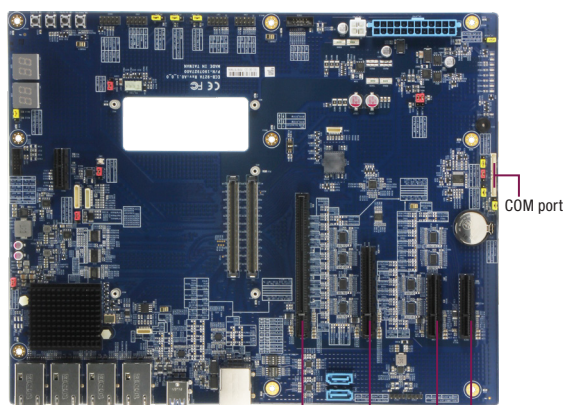
Features

- ATX Form Factor
- Supports COM Express Type 7 Basic Size
- PCIe [x16] + PCIe [x8] + PCIe [x4] x 2
- Display via Console or 3rd Party Graphic Solution
- USB 3.2 Gen 2 x 4
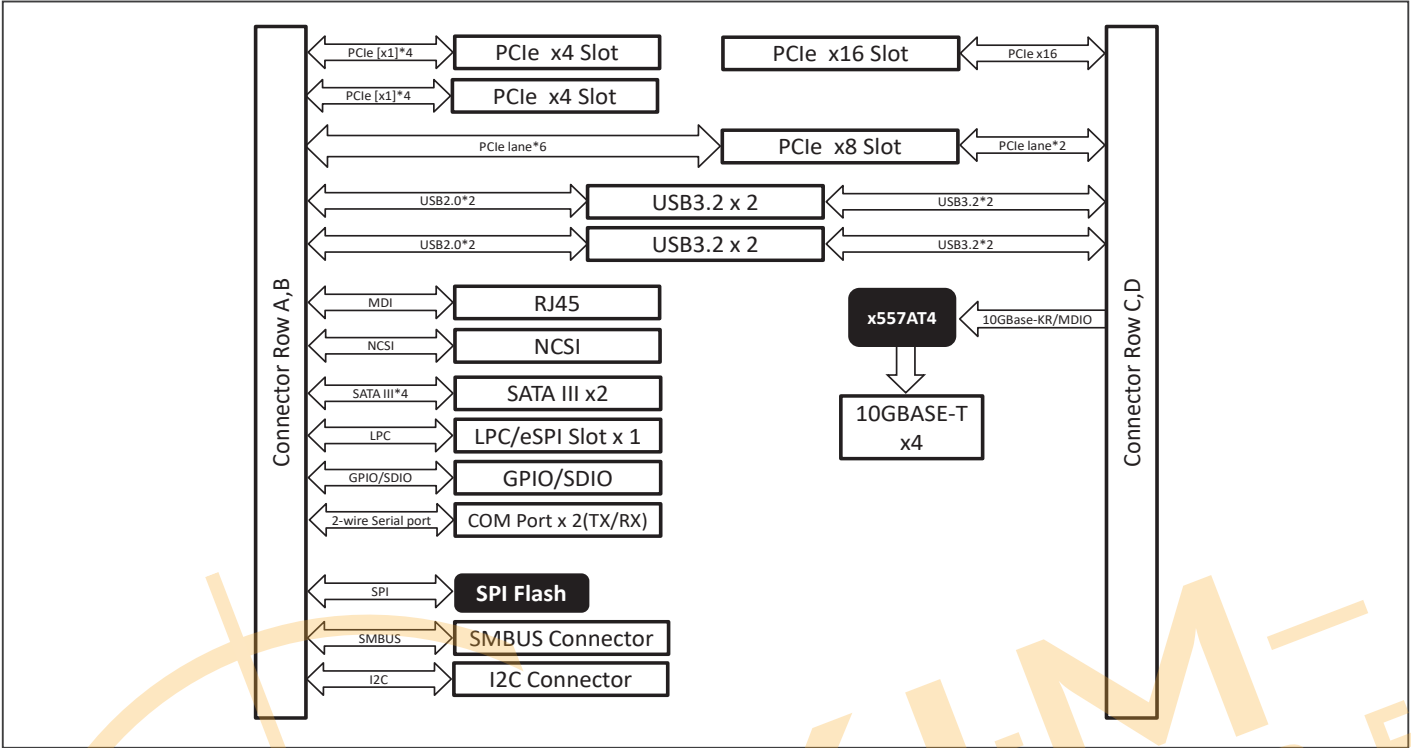- SATA III x 2
- 10GbE x 4 (Intel® Ethernet Connection X557-AT4)

Specifications

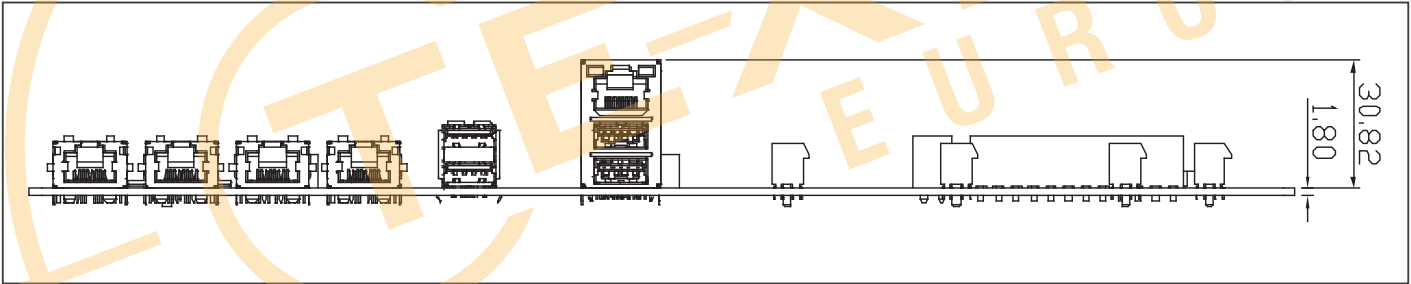| System	
Form Factor	COM Express Basic Size Type 7 Carrier Board in ATX Form Factor
COM Express Connector	x 2 (Row AB and Row CD, Type 7 pin-out)
I/O Chipset	—
Front Panel Control	10-pin Header (5x2)
Ethernet	10GbE x 4 (Intel® Ethernet Connection X557-AT4) GbE x 1 (from Module)
Expansion Interface	PCIe [x4] x 2 PCIe [x8] x 1 PCIe [x16] x 1 (PEG port)
Power Supply Type	Standard 24-pin ATX + 4-pin 12V
CMOS Battery	CR2032 Holder x 1
BIOS	—
Board Size	12" x 9.6" (305mm x 244mm)
Gross Weight	1.54 lb. (0.7Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Display	
LCD	N/A. via PCIe Graphic card
Display interface	N/A. via PCIe Graphic card
I/O	
Storage	SATA x 2
Serial Port	2-wire UART x 2 (TX/RX)
USB	USB 3.2 x 4
Audio	N/A
GPIO	8-bit
Switch/Button	Power Button x 1 / Reset Button x 1
Debug LED	7-SEG LED X2 80 PORT POST CODE INDICATOR
I2C	1
Expansion Interface	SMBus, LPC/eSPI slot

* I/O functions according to the type of module installed, please refer to function table.

Note: All specifications are subject to change without notice.

Block Diagram

Connector Row A,B

- PCIe [x1]*4 → PCIe x4 Slot
- PCIe [x1]*4 → PCIe x4 Slot
- PCIe lane*6 → PCIe x8 Slot
- USB2.0*2 → USB3.2 x 2
- USB2.0*2 → USB3.2 x 2
- MDI → RJ45
- NCSI → NCSI
- SATA III*4 → SATA III x2
- LPC → LPC/eSPI Slot x 1
- GPIO/SDIO → GPIO/SDIO
- 2-wire Serial port → COM Port x 2(TX/RX)
- SPI → SPI Flash
- SMBUS → SMBUS Connector
- I2C → I2C Connector

PCIe x16 Slot ← PCIe x16
PCIe x8 Slot ← PCIe lane*2
USB3.2 x 2 ← USB3.2*2
USB3.2 x 2 ← USB3.2*2

x557AT4 ← 10GBase-KR/MDIO
↓
10GBASE-T x4

Connector Row C,D

Dimension

Unit: mm

30.82
1.80

Packing List

- **COM Port Cable x 2**
- **ECB-927A-A10 x 1**

Ordering Information

- **ECB-927A-A10-0001**
  COMe Type7.Carrier Board.4x10GbE.4USB.2COM.2SATA.PCIe.ATX.A1.0

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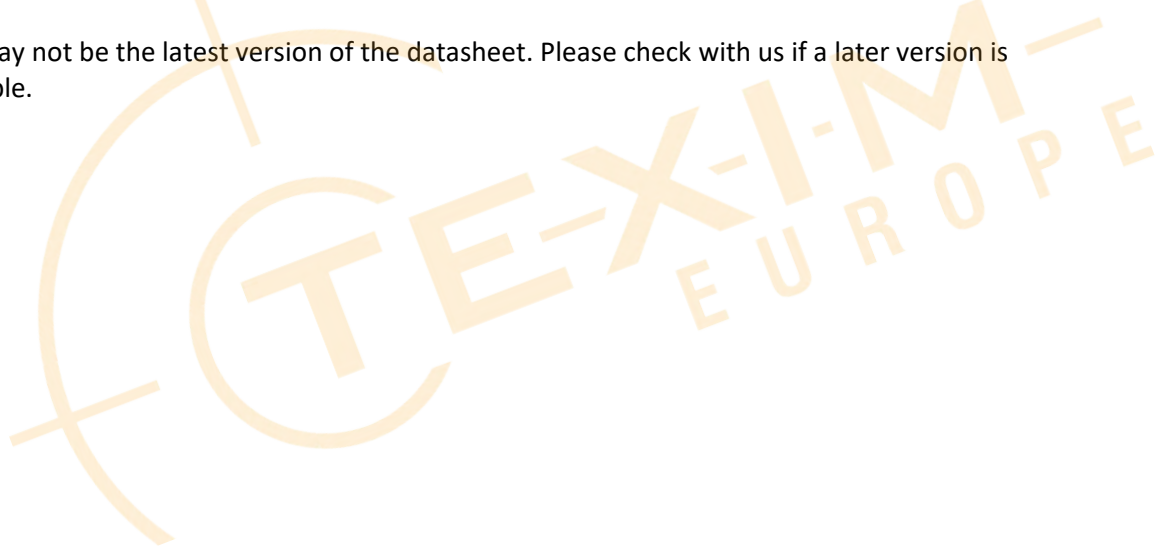
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