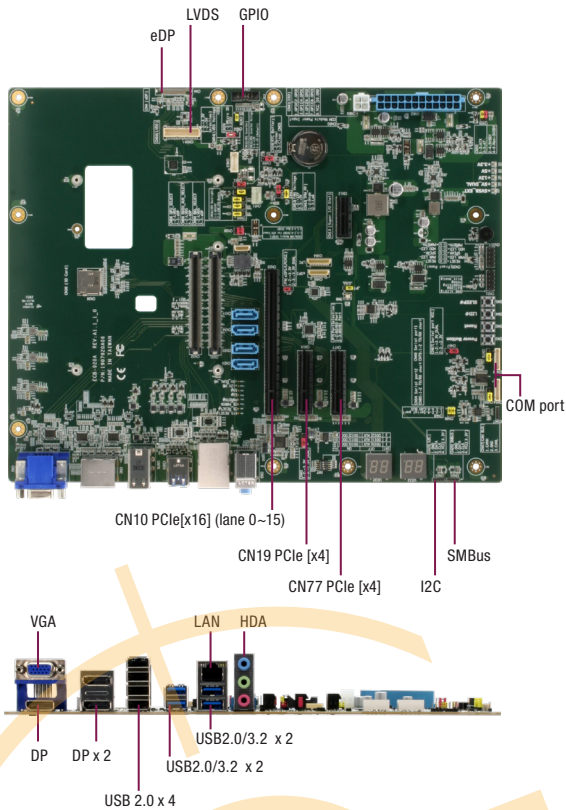


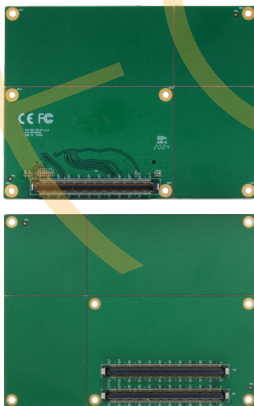
ECB-920A-A11

COM Express Evaluation Carrier Board (Type 6/Type 10)



PER-T603

PER-604



Features

- ATX Form Factor (305mm × 244mm)
- Supports COM Express Rev3.0, Pin out Type 6/Type 10
- PCIe [x16] x 1, PCIe [x4] x 2
- VGA x 1, LVDS, eDP, Display Port x 3
- USB 2.0 x 4, USB 3.2/2.0 x 4
- SATA III x 4
- RJ-45 GbE x 1, Supports up to 2.5GbE
- High Definition Audio
- LPC/eSPI Slot, GPIO/SDIO, SMBus x 1, I2C x 1
- COM Port x 2 (2-Wire UART Tx/Rx), GPIO 8-bit



Specifications

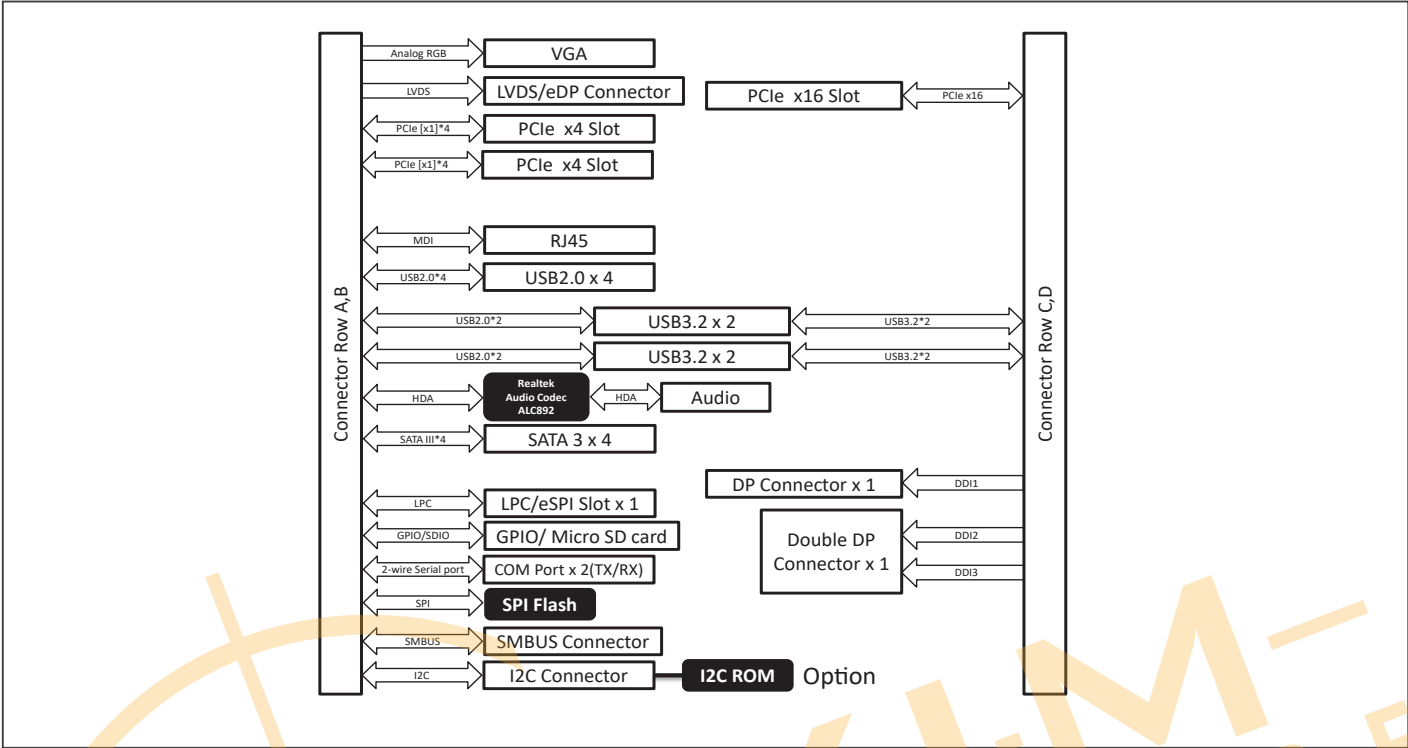
System	
Form Factor	ATX Form Factor
COM Express Connector	x 2 (Row A,B & Row C,D)
I/O Chipset	—
Front Panel Control	10-pin Header (5x2)
Ethernet	10/100/1000/2500 Base-TX, RJ45 x 1 (From CPU Module)
Expansion Interface	PCIe [x4] x 2 PCIe [x16] x 1
Power Supply Type	ATX
CMOS Battery	RTC Battery Socket x 1
BIOS	—
Board Size	12" x 9.6" (304mm x 244mm)
Gross Weight	1.32 lb. (0.6Kg)
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	LVDS: 40-pin Dual-Channel LVDS Connector (20x2) eDP: 30-pin Board Wire Connector
Display interface	Display Port x 3 (Dual x 1, Single x 1) D-SUB15 Connector x 1
I/O	
Storage	SATA III x 4
Serial Port	COM Port x 2 (2-Wire UART Tx/Rx)
USB	USB 2.0 x 4 (Type-A), USB 3.2/2.0 x 4 (Type-A)
Audio	Audio Jack, supports Line-in, Line-out, Microphone
GPIO	8-bit Programmable
Switch/Button	Power Button x 1 / Reset Button x 1
Debug LED	80 PORT
I2C	1
Expansion Interface	LPC, SMBus, eSPI, CAN Bus, 4 pin fan connector, Micro SD Card Slot x 1

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

Optional Accessories

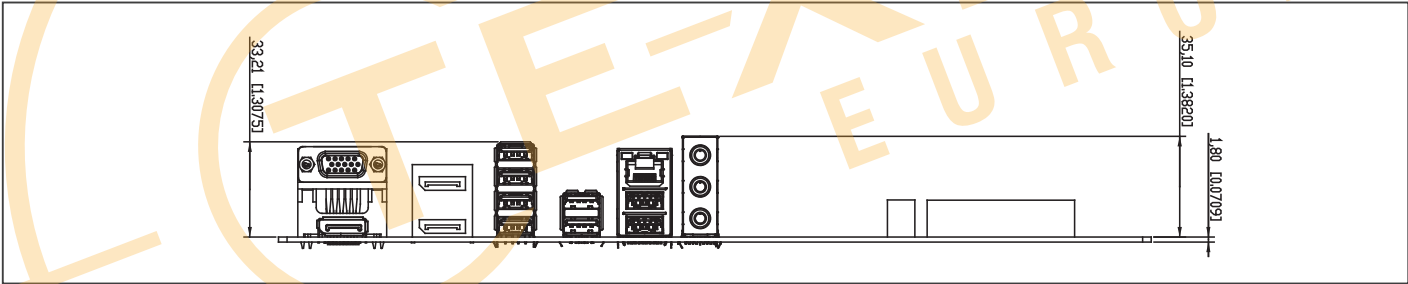
- **ECB-920A-A11-BRKT01**
ECB-920A-A11.IO Bracket
- **170X000324**
5V Power cable 1x4P to ATX 2x2P:200mm

Block Diagram



Dimension

Unit: mm



Packing List

- PER-T603 (COM Express Type Converter Board) x 1
- PER-T604 (PCIe [x4] to PCIe [x1] x 4 Card) x 1
- Cable Kit x 1 (Including SATA Cable x 2, COM Port Cable x 2)
- ECB-920A-A11 x 1

Ordering Information

- ECB-920A-A11-0001
COMe Type 6/10, Carrier Board, ATX, 2.5GbE, 8USB, 2COM, 4SATA, PCIe, AT/ATX, Rev. A1.1

Type 6/10 Function Table

COM Type	Type 6	Type 10
PCIe [x16]	1	—
PCIe [x4]	1 (Lane 0 – Lane 3)	1 (Lane 0 – Lane 3)
PCIe [x1]	1 (Lane 4 – Lane 7)	—
VGA	1	—
DDI	3 (DDI1 – DDI3)	1
LVDS	1	1
LAN	1	1
SATA III	4 (Lane 0 – Lane 3)	2 (Lane 0 – Lane 1)
Serial Port (Tx/Rx)	—	—
USB 3.2	4 (Lane 0 – Lane 3)	2 (Lane 0 – Lane 1)
USB 2.0	8 (Lane 0 – Lane 7)	8 (Lane 0 – Lane 7)
GPIO/SDIO	1 (GPIO 8 bits)	1 (GPIO 8 bits)

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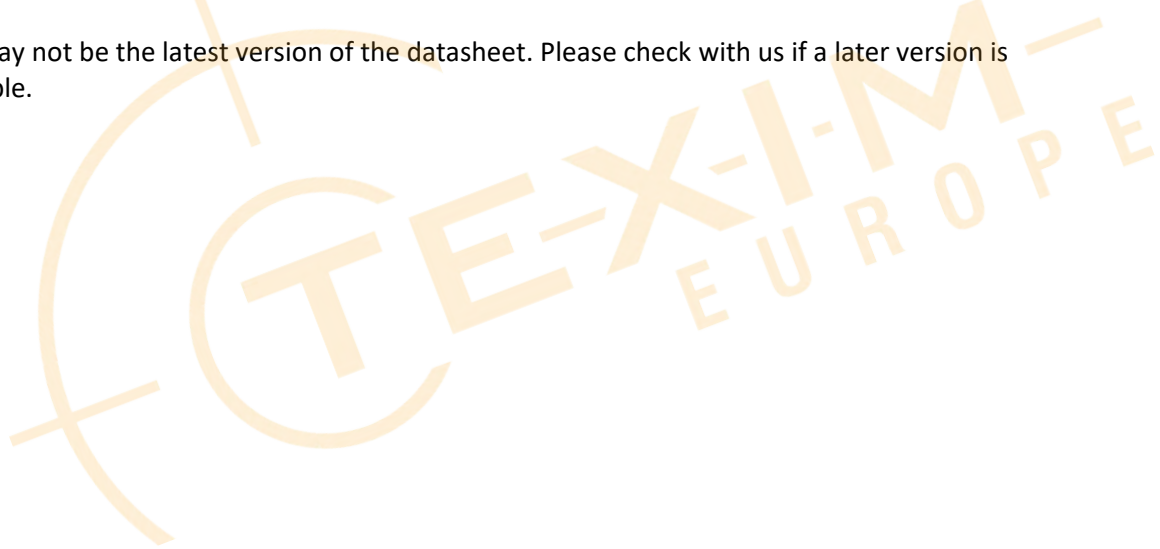
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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