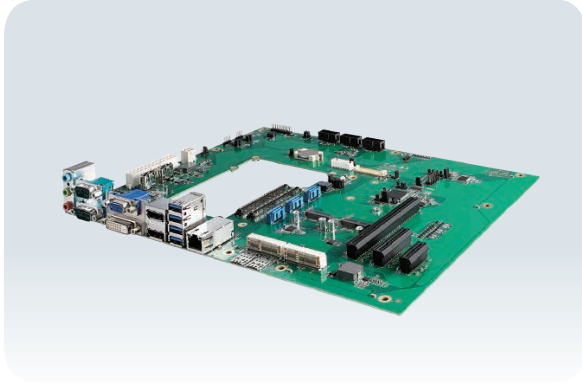


VCOM-BASE

COM Express® Type 6 Reference Carrier Board in ATX Form Factor



Features

- Conforms to COM Express® Carrier Design Guide, support type 6 modules in Compact form factor
- 1 PCIe x16 slots, 1 PCIe x4 slot, 1 PCIe x1 slots
- Supports three Digital Display Interfaces (DDI) with VGA/DVI/DisplayPort
- Dual BIOS (SPI and LPC)



Specifications

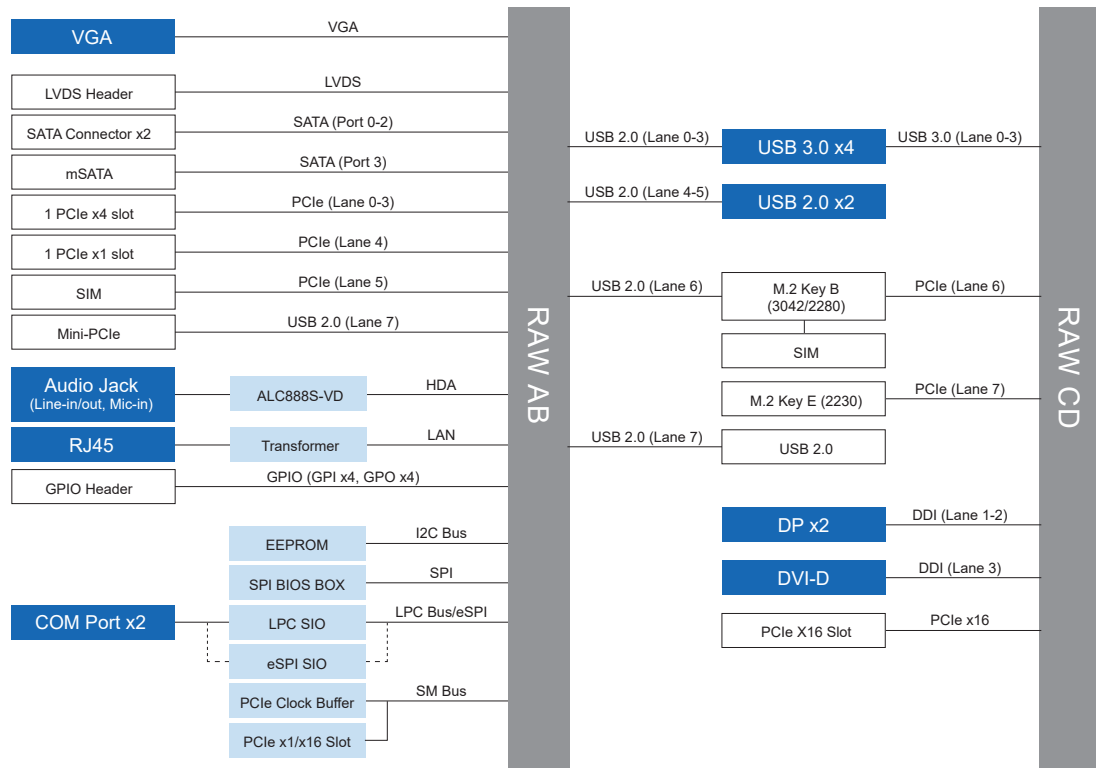
Form Factor	
Module Interface	PICMG® COM Express® Revision 2.0 Support Type 6 modules in Basic or Compact form factor
Dimensions (L x W)	244mm x 305mm (9.61" x 12.01")
Graphics	
Interface	▪ 1 VGA ▪ 1 LVDS ▪ 1 DVI-D ▪ 2 DisplayPort
Ethernet	
LAN 1	Base on COMe Module
Audio	
Audio Codec	Realtek ALC885S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out, 1 Line-in
Storage	
SATA	3 SATA III (6Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
M.2	1 M.2 Key B Socket (PCIe Interface)
Expansion	
PCIe	▪ 1 PCIe x1 Slot ▪ 1 PCIe x4 Slot ▪ 1 PCIe x16 Slot
mini PCIe	1 Full-size Mini PCIe Socket for PCIe/USB/SIM Card/Optional mSATA
M.2	▪ 1 M.2 Key B (3042/2280) ▪ 1 M.2 Key E (2230)
Power	
Power Input	ATX: 12V±5% / 5Vsb ±5%; or AT: 12V±5%
Power Interface	ATX Power Connector
Environment	
Operating Temperature	0°C to 60°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% Humidity, Non-condensing
Relative Humidity	95% at 60°C
EMC	CE, FCC

I/O Interface	
Rear I/O	▪ 1 VGA Connector ▪ 1 DVI-D Connector ▪ 2 DisplayPort Connector ▪ 4 USB 3.0 Connector ▪ 2 USB 2.0 Connector ▪ 1 RJ45 Connector ▪ 2 COM Connector ▪ 1 Line-in/out, Mic-in
Internal I/O	▪ 1 LVDS Header ▪ 1 LVDS Power Header ▪ 3 SATA Data Connector ▪ 1 FAN Connector ▪ RAW AB/CD connector ▪ 1 PCIe x1 Slot ▪ 1 PCIe x4 Slot ▪ 1 PCIe x16 Slot ▪ 1 M.2 Key B Socket (3042/2280) ▪ 1 M.2 Key E Socket (2230) ▪ 1 mSATA Socket ▪ 1 mini-PCIe Socket ▪ 2 SIM Socket ▪ 1 GPIO Header (GPI x4, GPO x4) ▪ 4 Buttons for GPI ▪ 2 7-Segment Display (for Debug Port) ▪ 1 SPI BIOS BOX ▪ 1 LPC Debug Header ▪ 1 LPC Test Header ▪ 1 EEPROM Address A0 Selection ▪ 1 EEPROM Address A1 Selection ▪ 1 I2C Bus header ▪ 1 SMB Bus header ▪ 1 LVDS Flat Panel Connector ▪ 1 Backlight Control ▪ 1 LVDS Backlight Power Voltage header ▪ 1 LVDS Panel Power Voltage header ▪ 1 LVDS Backlight Enable Signal Type header ▪ 1 LVDS Brightness Control header ▪ 1 LVDS Brightness PWM Source header ▪ 1 ATX 24-pin Power Connector (for carrier) ▪ 1 ATX 12V 4-pin Connector (for module) ▪ 1 Smart Battery conneco ▪ 1 PWR_OK Config header ▪ 1 PWR AT/ATX MODE header ▪ 1 PWR PS_ON# Signal Source header ▪ 1 PWR AT Power 5V Setting(for module 5Vsb) header ▪ 1 PWR 5VSB to Module Source header ▪ 1 Miscellaneous header ▪ 1 Clear CMOS header ▪ 2 BIOS Selection header ▪ 1 Buzzer

Order Information

VCOM-BASE	COM Express® Type 6 Reference Carrier Board in ATX form factor
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Block Diagram



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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