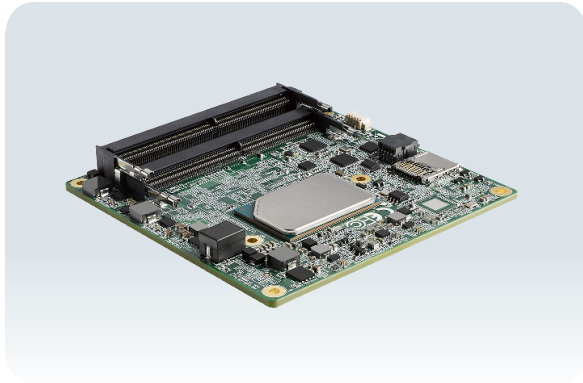


# VCOM-1600

COM Express Compact Size Type 6 Module with Intel Atom® x6000E Processor



## Features

- Intel Atom® x6000E Processor (Elkhart Lake), boost up to 3.0GHz
- Multiple DDI, VGA, LVDS display interfaces, support up to 4K resolution
- DDR4 3200MHz memory, up to 32GB
- 1 independent 2.5GigE LAN supports Intel® Time Coordinated Computing (TCC) and Time Sensitive Networking (TSN) for real-time data synchronization
- PCIe Gen3 lanes, TPM 2.0 supported
- USB 3.1 Gen 2 supports up to 10Gbps data transfer



## Specifications

System	
<b>Processor</b>	Intel Atom® x6000E Processor (Elkhart Lake)
<b>BIOS</b>	AMI
<b>Memory</b>	2 DDR4 3200MHz SO-DIMM, up to 32GB
<b>OS</b>	Windows 10, Linux
Graphics	
<b>Graphics Processor</b>	Intel® UHD Graphics for 10th Gen Intel® Processors
<b>Interface</b>	Multiple independent display : <ul style="list-style-type: none"> <li>▪ VGA : 1920 x1200 @60Hz</li> <li>▪ LVDS : 1920 1200 @60Hz</li> <li>▪ 2 DDI: 4096 x2160 @60Hz</li> </ul>
Ethernet	
<b>LAN 1</b>	Intel® I225IT 2.5GigE LAN
Audio	
<b>Audio Codec</b>	On VCOM-BASE (Realtek ALC885-VD standard support)
<b>Audio Interface</b>	HAD Bus
I/O Interface	
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>▪ 2 DDR4 SO-DIMM Socket</li> <li>▪ 1 FAN Connector</li> <li>▪ RAW AB/CD Connector</li> </ul>
Storage	
<b>SATA</b>	2 SATA III (6Gbps) (to RAW A/B)
Power	
<b>Power Input</b>	ATX: 12V±5% / 5Vsb ±5%; or AT: 12V±5%

Expansion	
<b>PCIe</b>	<ul style="list-style-type: none"> <li>▪ 4 PCIe x1 (configurable to 4 x1, 2 x2, 1 x4, 2 x1+1 x2, 1 x2+2 x1, to RAW A/B)</li> <li>▪ 1 PCIe x1 (to RAW A/B)</li> </ul>
Others	
<b>HW Monitor</b>	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
<b>TPM</b>	Infineon SLB9670 supports TPM 2.0, SPI Interface (Optional)
Mechanical	
<b>Dimensions (L x W)</b>	Compact size: 95mm x 95mm (3.74" x 3.74")
<b>Form Factor</b>	PICMG COM.0 Rev 3.0 Type 6
Environment	
<b>Operating Temperature</b>	-40°C to 85°C with Fan sink
<b>Storage Temperature</b>	-40°C to 85°C
<b>Humidity</b>	5% to 95% Humidity, Non-condensing
<b>Relative Humidity</b>	95% at 85°C
<b>EMC</b>	CE, FCC

## Packing List

VCOM-1600	x1
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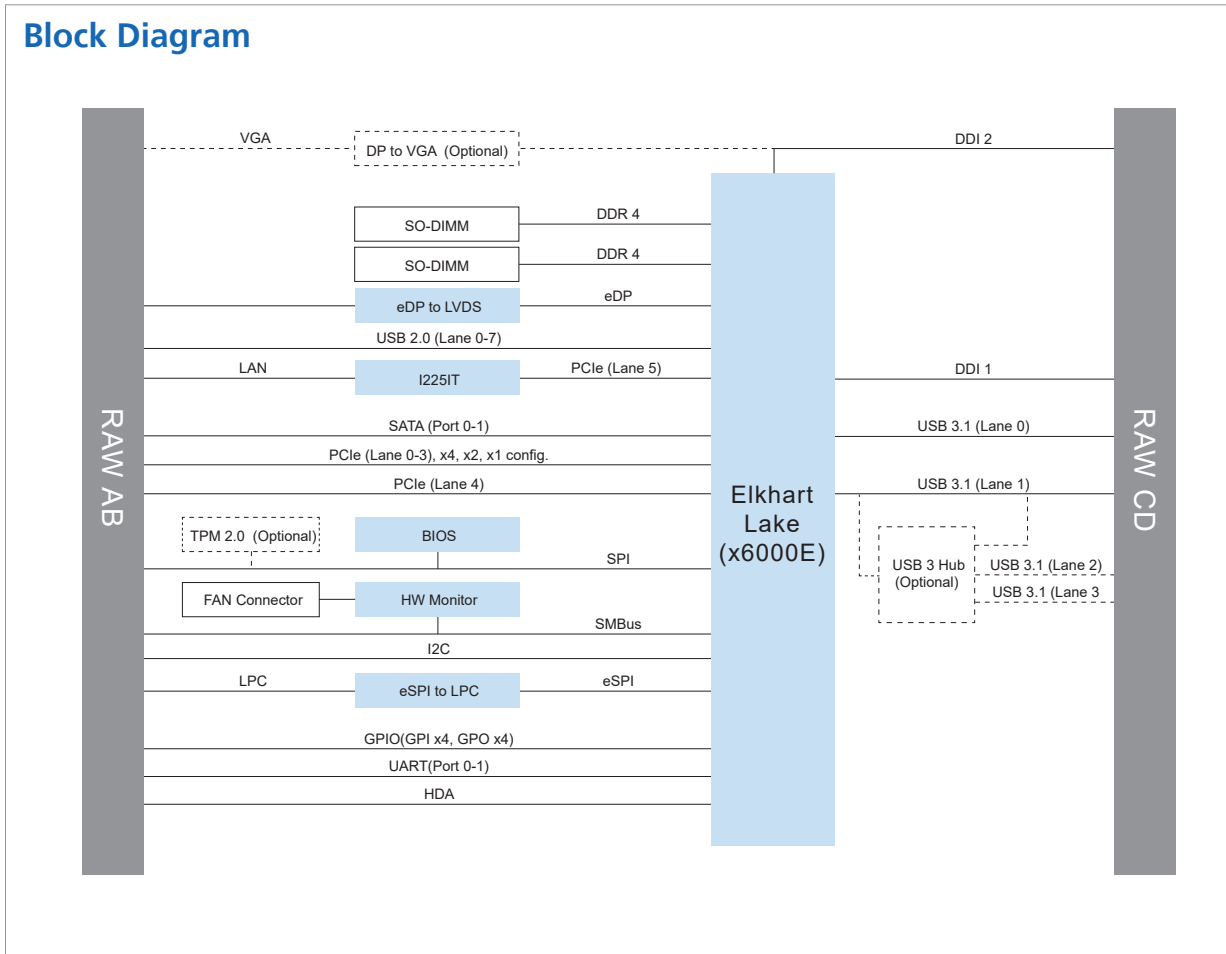
## Order Information

VCOM-1600-x6425RE	Compact COM Express Type 6 with Intel Atom® x6425RE (4 core)
VCOM-1600-x6211E	Compact COM Express Type 6 with Intel Atom® x6211E (2 core)

## Optional Accessory

<b>ATX Power Supply</b>	ATX Power Supply 250W
<b>Heat Spreader</b>	Heat Spreader for VCOM-1600
<b>Fansink</b>	Fansink for VCOM-1600

### 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660