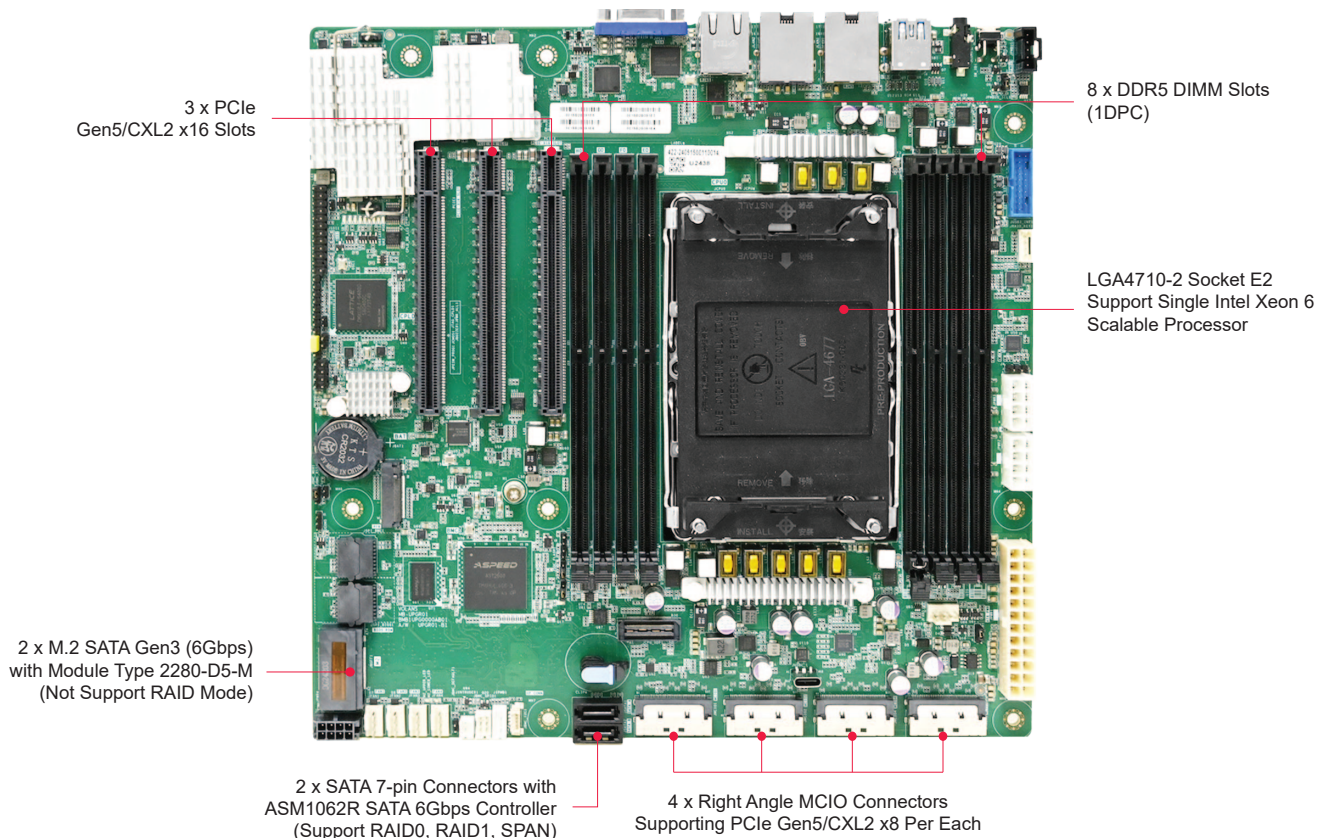
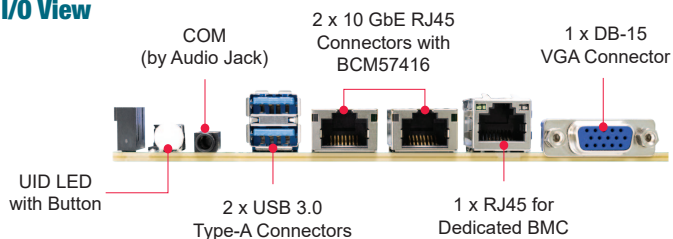




I/O View



Dimensions

mm : 244 x 244 / inches : 9.6 x 9.6

Volans supports single Intel® Xeon® 6 processors 6500/6700 series with up to 144 CPU cores and TDP up to 350W. It supports up to 2TB DDR5 3DS RDIMMs with 8 memory slots and memory speeds up to 6400MT/s.

The high-speed expansion I/O includes 3 x16 PCIe5.0 slots, 4 MCIO x8 PCIe5.0, 2 M.2 2280 SATA3, 2 SATA3.0 7-pin connectors (support RAID 0, RAID 1, SPAN), 2 USB3 ports on rear, 1 internal USB 3.0 header (support 2 USB 3.0), and two ports RJ45 10GBase-T connectors. Security features include TPM2.0.

Features

- Supports Intel® Xeon® 6 Scalable Processors for highest performance and improved power efficiency
- Supports 8 DDR5 DIMM slots up to 6400MT/s
- Supports Compute Express Link (CXL2.0)
- Supports MCR DIMMs (8000MT/s)
- Supports three PCIe5.0 x16 slots and four MCIO PCIe5.0 x8, total 80 PCIe 5.0 lanes
- Supports two RJ45 10GBase-T connectors

Specifications

System	Processor Support	Single Intel® Xeon® 6 processors 6500/6700 series CPU
	CPU TDP	350W
	Socket Type	Socket E2 (LGA 4710 Socket)
	System Memory	• DDR5 • 6400MTs (1DPC RDIMM) • 8000MTs (1DPC MCR) • Total 8 memory slots; 8 channel per CPU (1DPC) • Supports up to 2TB (3DS RDIMM)
	Expansion Slots	• 3 x16 PCIe5.0/CXL slots • 4 MCIO x8 PCIe5.0/CXL • Total support 80 lanes of PCIe5.0 • 1 M.2 stack connector support two 2280 SATA3.0 (6Gbs) ports • 2 SATA3.0 (6Gbs) 7-pin connectors • 1 USB 3.0 double-stack Type-A connector supports two USB 3.0 devices • 1 USB pin header supports two USB 3.0
System BIOS	BIOS Type	AMI UEFI BIOS
	BIOS Features	• ACPI • PXE • WOL • AC loss recovery • IPMI 2.0 KCS mode interface • SRIOV • SMBIOS • TPM • Serial console redirection • PCIe hotplug

On-board Devices	SATA	• ASMedia ASM1062R SATA (6Gbs) Raid Controller (Support RAID 0, RAID1, SPAN) supports two SATA ports • ASMedia ASM1061 SATA (6Gbs) Controller supports two M.2 SATA Gen3 (6Gbps) with Module Type 2280-D5-M (not support RAID mode)
	BMC	ASPEED AST2600
	Network Controller	• Broadcom BCM57416 • Supports two ports RJ45 10GBase-T
	Graphics	• Integrated VGA support by ASPEED AST2600 • Resolution up to 1920x1200 @60Hz 32bpp
	Additional Information	TPM 2.0 – NUVOTON NPCT760AABYX
Input/Output	SATA	• 2 x SATA 7-pin connectors with ASM1062R SATA3 (6Gbs) Controller (Support RAID 0, RAID 1, SPAN) • 2 x M.2 SATA3 (6Gbs) with Module Type 2280-D5-M (not support RAID mode) support by ASM1061
	LAN	• 2 x RJ45 connectors for dual port 10 GbE • 1 x RJ45 connector (for BMC management port)
	USB	• ASMedia ASM1074 USB 3.0 HUB • 1 x USB 3.0 double-stack Type-A connector supports two USB 3.0 devices • 1 x USB pin header support two USB 3.0
	VGA	1 x DB-15 VGA connector
	Serial Port	1 x COM connector (Audio Jack)
	Others	• 3 x16 PCIe5.0 slots • 4 x MCIO x8 PCIe5.0
	Additional Information	Security: • TPM 2.0 on-board

Ordering Information

MB SKU	Order Info	Description
Volans (A)	BMB1UPG0000A	PCBA/MOTHER BOARD/MB-UPGR01/VOLANS INTEL BIRCH STREAM/GRANITE RAPID-SP/8DDR5/PCIE GEN5/ 4X MCIO X8/3X PCIE SLOT X16/2X M.2 SATA/10G LAN
Volans (A)	M22-1717-012	Volans MB (BMB1UPG0000A) (with 10G LAN) with IOS (M60-1717-001), bulk packing with 10 pcs MB & IOS (10 pcs in packing)
Volans (A)	M22-1717-013	Volans MB (BMB1UPG0000A) (with 10G LAN) with IOS (M60-1717-001), single packing
Volans (B)	BMB1UPG0000B	PCBA/MOTHER BOARD/MB-UPGR01/VOLANS/ INTEL BIRCH STREAM/GRANITE RAPID-SP/8DDR5/PCIE GEN5/ 4X MCIO X8/3X PCIE SLOT X16/2X M.2 SATA/1G LAN
Volans (B)	M22-1717-026	Volans MB (BMB1UPG0000B) (with 1G LAN) with IOS (M60-1717-001), bulk packing (10 pcs in packing)
Volans (B)	M22-1717-027	Volans MB MB (BMB1UPG0000B) (with 1G LAN) with IOS (M60-1717-001), single packing