ALTOS COMPUTING
AQ67ALTOSP1F9
Brain Sphere
Workstations
Features

ALTOS COMPUTING AQ67ALTOSP1F9 Brain Sphere Workstations Features Instruction Manual

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Product Usage Instructions

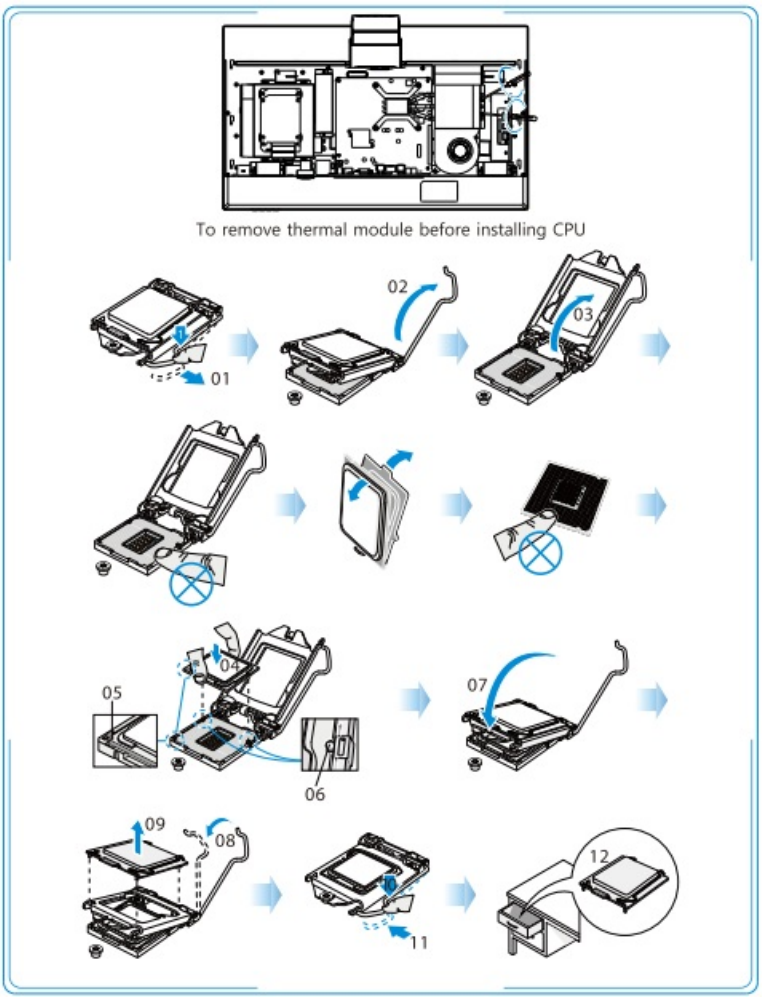
- **Installing CPU Thermal Module:**
  To install the CPU thermal module, follow these steps:
  - Remove the air vent before installing the CPU thermal module.
  - Apply an even and thin layer of thermal grease on the surface of the installed CPU.
- **Installing CPU Fan:**
  Follow the manufacturer's instructions for installing the CPU fan properly to ensure optimal cooling performance.
- **Connecting Cables on the Motherboard:**
  Refer to the enclosed Wibtek motherboard I/O picture for cable connection configurations. Each label corresponds to a specific connection on the motherboard.
- **Installing Antennas:**
- Securely attach the antennas to the designated antenna ports on the device to ensure proper signal reception.
- **Installing the Hard Disk Drive:**

Mount the hard disk drive in the chassis, connect the necessary cables, and secure it in place with screws.

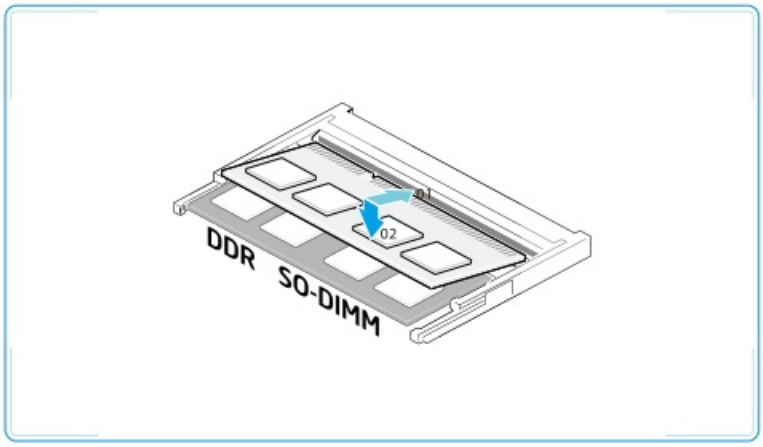
- **Installing the Optical Disk Drive:**
  Remove the optical disk drive mounting bracket, install it on the back of the drive, and secure it in the chassis with screws. Connect the necessary cables for operation.
- **Installing the Back Cover:**
  Attach the back cover securely to protect internal components and ensure a clean finish.
- **Multiple Combinations:**
  You can create various combinations by installing different components like shields, shaft brackets, decorative covers, and bases according to your requirements.

INSTALLATION INSTRUCTION

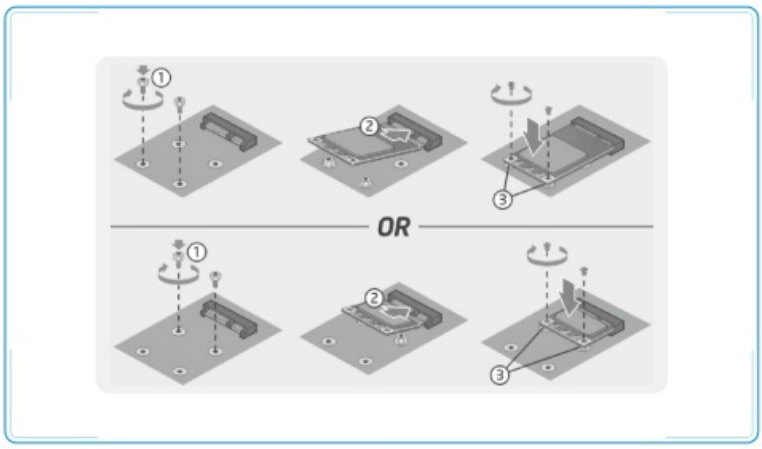
Installing CPU



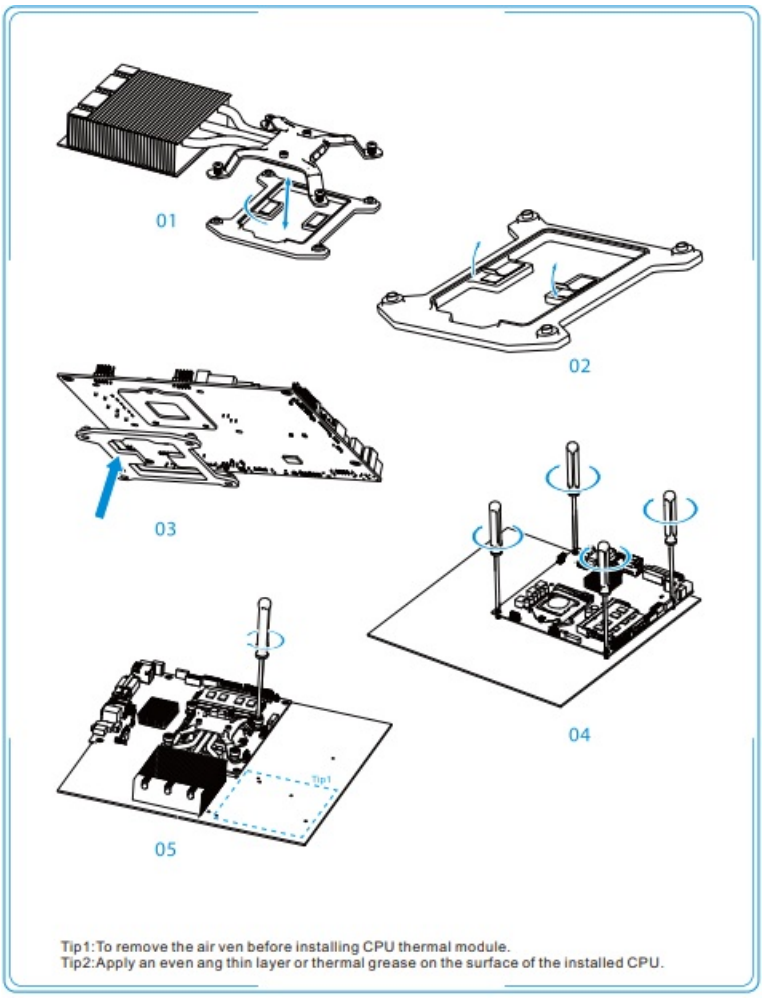
Installing Memory



Installing Wi-Fi Card

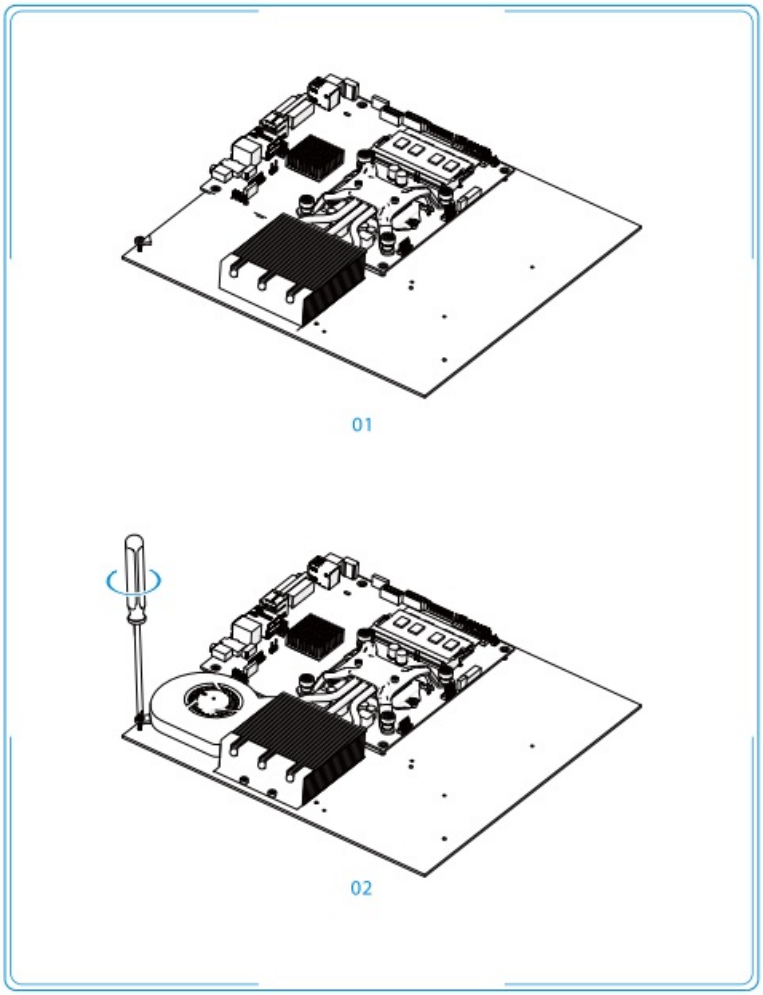


Installing CPU Thermal Module



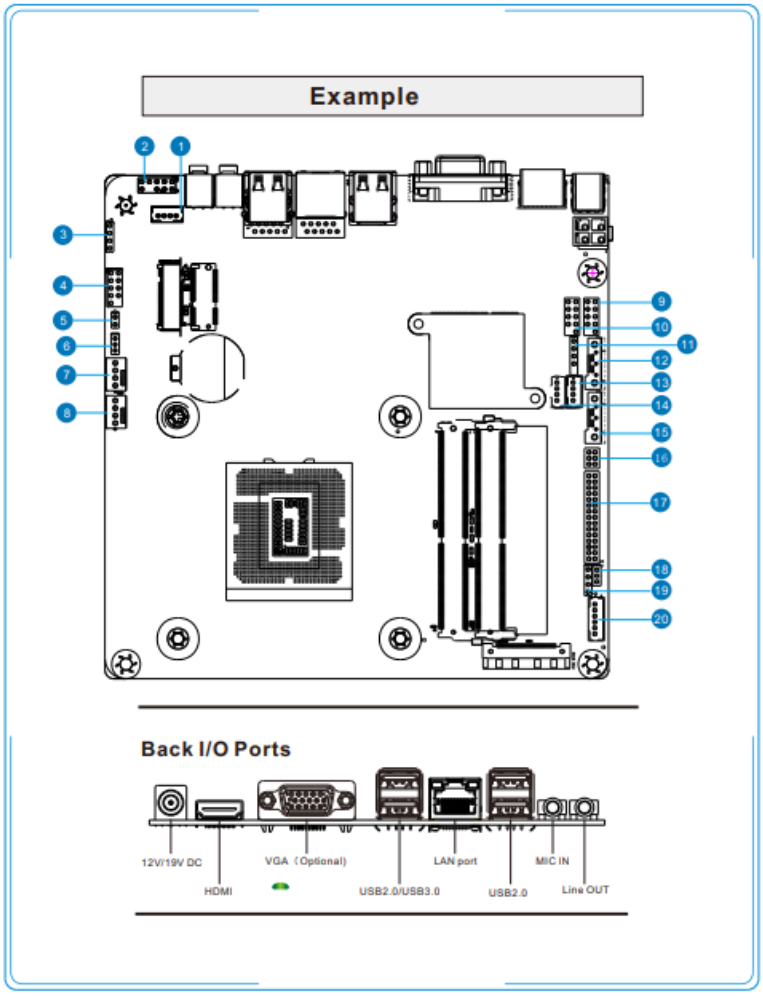
- **Tip1**: To remove the air ven before installing CPU thermal module.
- **Tip2**: Apply an even ang thin layer or thermal grease on the surface of the installed CPU.

Installing CPU Fan



Connecting the cables on the motherboard

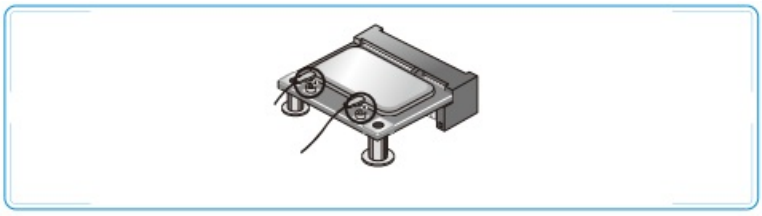
- Configurations vary by different motherboard model.
- Enclosed Wibtek motherboard 1/0 picture is an example for reference only.



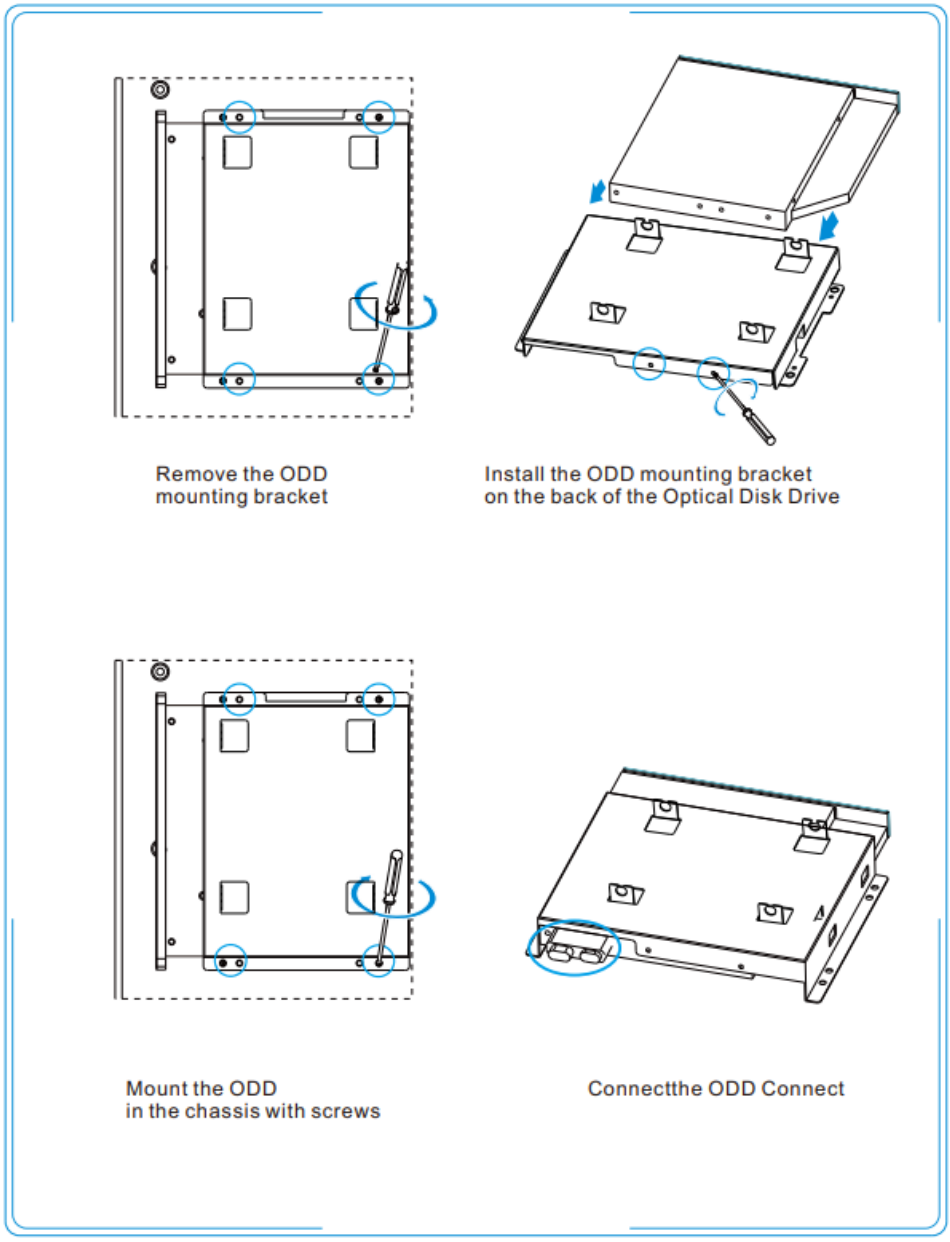
Connection Identification for AIO PC

Label	Connection
SPEAKER	Chassis Speaker Connector (2)
FP_AUDIO_/F_AUDIO	Front Audio Header
SPEAKER	Chassis Speaker Connector (3)
SYS_PANEL	Intel Front Panel Header (4)
AUTO_PWR	Automatic Power (5)
CLR CMOS	Clear CMOS Header (6)
CPU_FAN	CPU Fan Header
SYS FAN	System Fan Header
USB20_1	USB2.0 (Double) Header (9)
USB20_2	USB2.0 (Double) Header (10)
USB20_3	USB2.0 (Double) Header (11)
SATA	SATA Connector (12)
SATA_PWR	Standard SATA 15-pin male (Optional) (13)
SATA	SATA Connector (14)
SATA_PWR	Standard SATA 15-pin male (Optional) (15)
LCD VOT SEL	Panel Voltage Selection (16)
LVDS	LVDS (17)
IN VOT SEL	Backlight Inverter Voltage Selection (18)
MON_SW	Monitor Switch (19)
DISPLAY-BRT	Display Brightness Header (20)

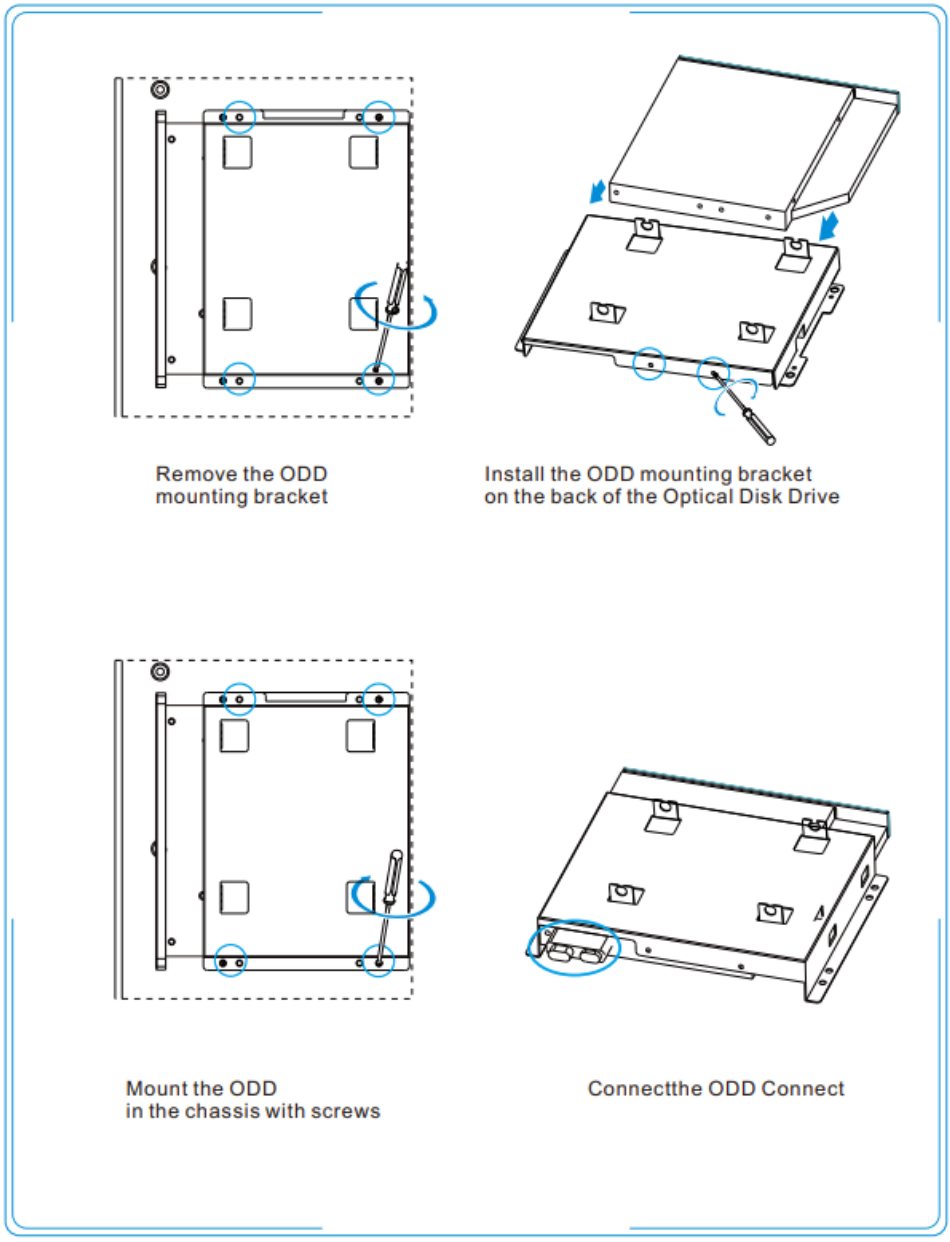
Installing Antennas



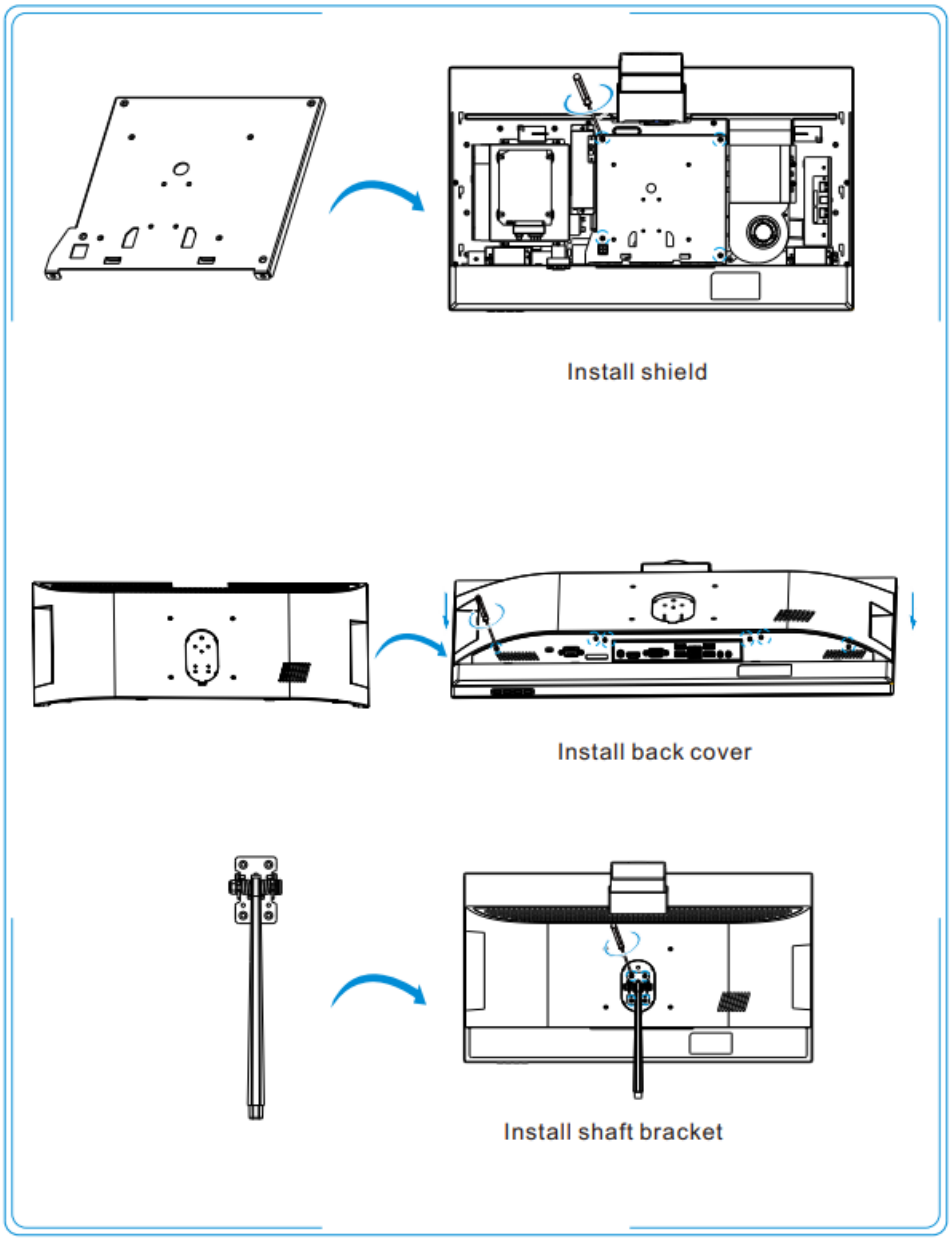
Installing the Hard Disk Drive



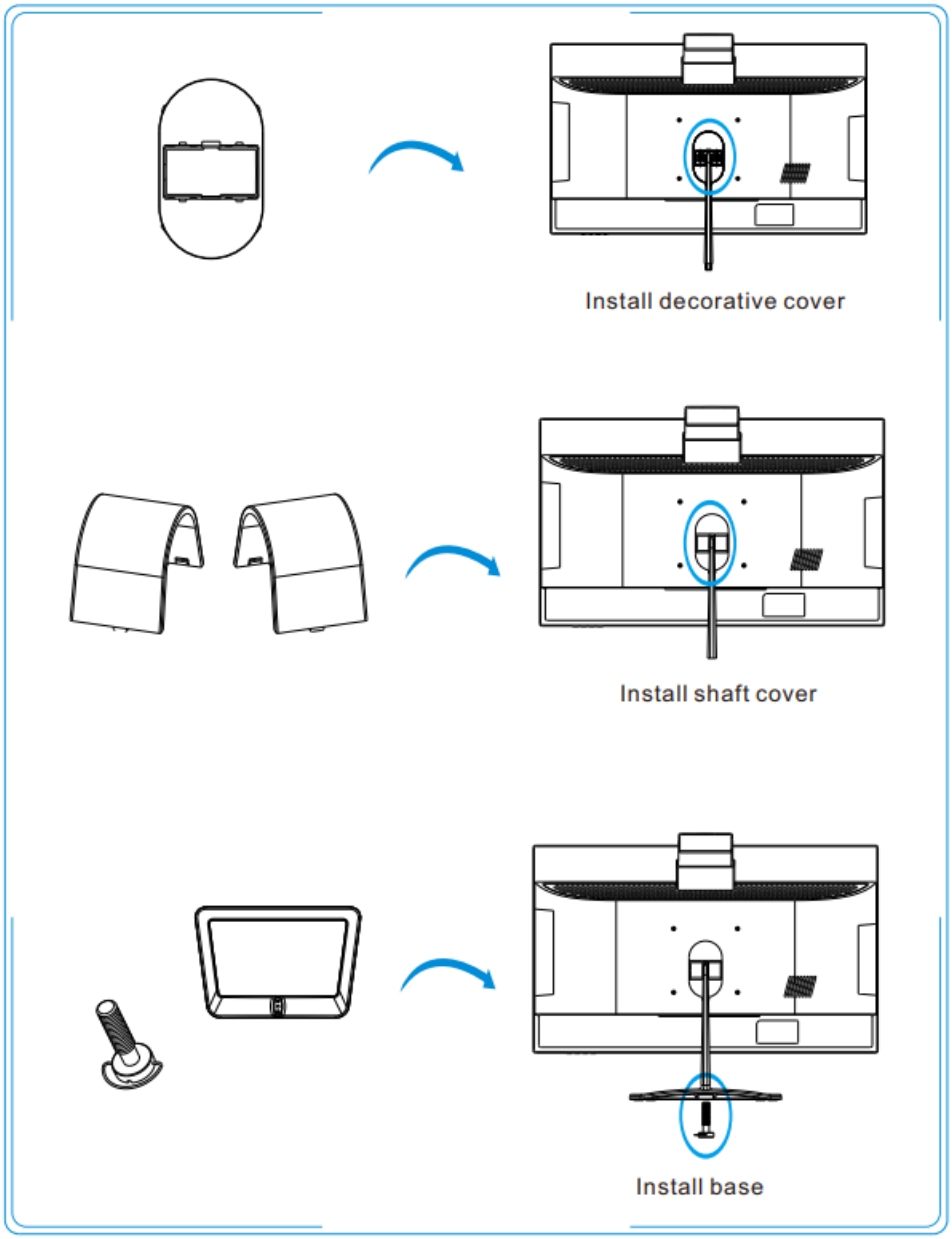
Installing the Optical Disk Drive

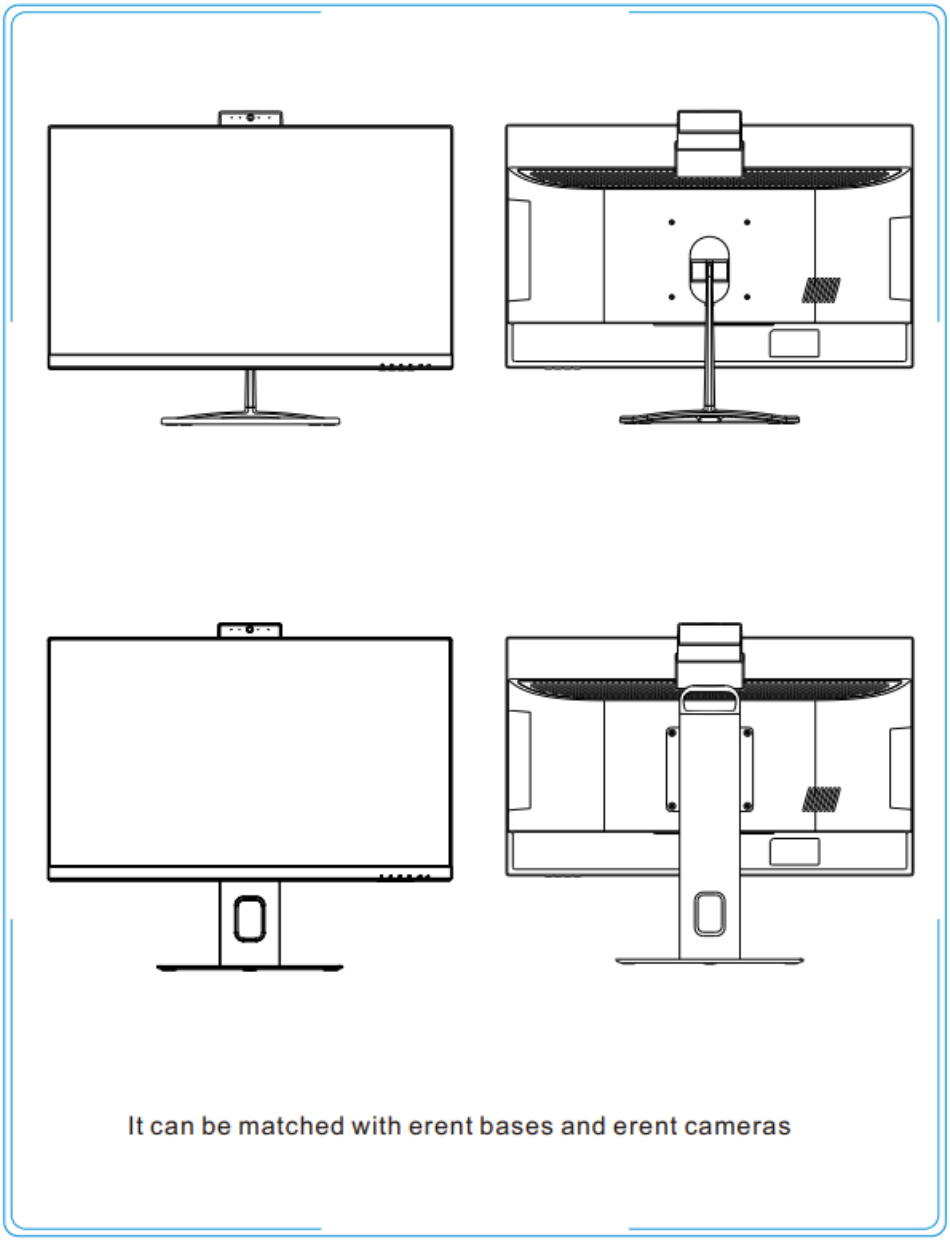


Installing the back cover



Multiple combinations


Install decorative cover
Install shaft cover
Install base



Powerful performance, High-quality output

The BrainSphere™ P10 F7 supports 11th Generation Intel® Core™ Processors which provide stable performance, with Intel® UHD Graphics high-quality display technology. It supports the latest NVIDIA ® graphics cards and is Wi-Fi 6 ready.

Flexible expansion
Altos BrainSphere™ P10 F7 comes in 12L (SFF), 28L (mATX) and 38L (ATX) chassis options to cater for 80 Plus 300W, 500W and 750W power supply options respectively, which allows flexibility to match with the specification & applications needs

Remote control, Lower the cost
Improve efficiency and productivity through the Altos Smart Server Manager (ASSM). IT admin can remotely control and manage Altos products, ranging from the server to the workstations in their architecture environment.

STANDARD SPECS

PART NO.	Altos BrainSphere™ P10 F7 Workstation
US.RRJTA.007	
Processor	Intel® Core™ i7-11700 8C/16T (2.50Ghz) Processor
Cache Memory	16 MB Intel® Smart Cache
Memory	**(1x) 8GB DDR4-3200 Non-ECC UDIMM**
	NOTE: 4 DIMM slots (Dual channel)
Chipset	Intel® H570 Chipset
Network Controller	1 Gb/s (10/100/1000) BASE-T LAN port (Intel®I219V)
Audio Controller	Realtek ALC897
Storage Controller	Intel onboard software RAID 0, 1, 5, 10 (only supports Windows OS)
PCIe NVMe M.2 SSD	**(1x) M.2 256GB PCIe NVMe SSD**
Hard Drive	**(1x) 3.5″ 1TB SATA 7200RPM Hard Drive**
Graphics	**NVIDIA Quadro P1000 GDDRV 4GB (4x Mini Display Port 1.4, w/mDP2DP Cables)**
Storage Bays	28L(mATX) SKU: 2 x 3.5” bays
Power Supply	**28L(mATX) SKU: 500W 80 PLUS Bronze**
Form Factor	Micro ATX Tower
Management	**Altos Smart Server Manager**
Ports	**Front:** 1x USB 3.2 Gen1 port(Type C), 2x USB 3.2 Gen1 ports, 2x USB 2.0 ports,Audio jacks (In/Out)
	Rear: 1x Display Port 1.4, 1x HDMI Port, 2x USB 3.2 Gen2 ports(Type-A), 4x USB 3.2 Gen1 ports, 1x Gigabit LAN port (RJ-45), 3x Audio jacks (In/Out/Mic)
Operating System	**Microsoft Windows® 10 Pro**
Others	Altos USB Keyboard and Mouse
Dimension	28L(mATX) SKU : 425 (D) x 190 (W) x 350 (H) mm
Warranty	3 years Parts – 3 years Labor – 3 Years On Site (Next Business Day)

FCC S TATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

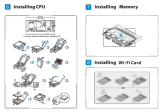
This equipment has been tested and meets applicable limits for radio frequency (RF) SAR limits when used on the body and Limb.

FAQ

What should I do if I encounter interference issues with my device?
If you experience interference, ensure that connections are secure and follow FCC guidelines for operation. Contact a professional if needed.

How can I optimize cooling performance for my CPU?
Proper installation of the CPU thermal module and fan is crucial. Ensure there is proper airflow within the system for optimal cooling.

Documents / Resources

	ALTOS COMPUTING AQ67ALTOSP1F9 Brain Sphere Workstations Features [pdf] Instruction Manual 2BHDD-AQ67ALTOSP1F9, 2BHDDAQ67ALTOSP1F9, aq67altosp1f9, AQ67ALTOSP1F9 Brain Sphere Workstations Features, AQ67ALTOSP1F9, Brain Sphere Workstations Features, Sphere Workstations Features, Workstations Features

References

- User Manual