USER'S MANUAL

AOD/ATS 150 metal case (touch) computer
Type Z790M

Standard type,
also available as:

PCAP panelmount

19 inch Rackmount

Black panelmount

RVS panelmount

Hinges

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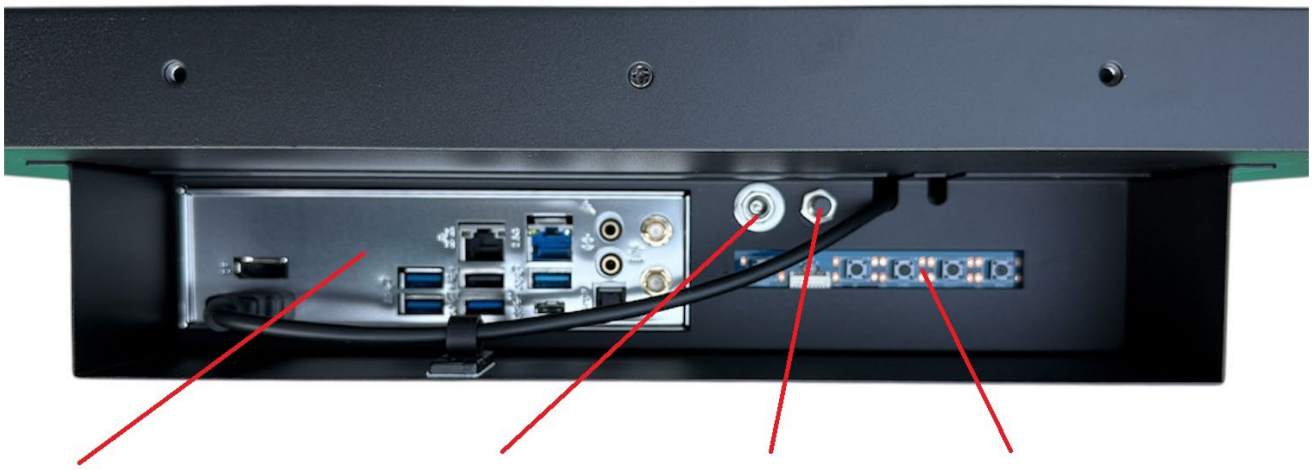
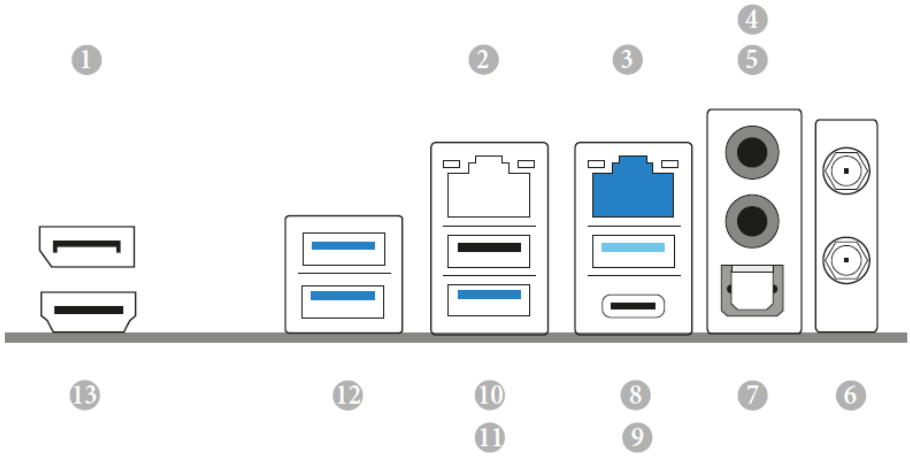
1. (Touch) Computer User's Manual

1.0 Connection To the Computer:



1.1 Installation

- Mount the unit in position as desired.
  You can adjust the connection for your PC environment via I/O panel of computer:



No.	Description	No.	Description
1	DisplayPort 1.4	8	USB 3.2 Gen2 Type-A Port (USB32_4)
2	LAN RJ-45 Port (Intel® I219V)*	9	USB 3.2 Gen2x2 Type-C Port
3	2.5G LAN RJ-45 Port		(USB32_TC1)
	(Intel® I226V)**	10	USB 2.0 Port (USB_1)
4	Microphone Input Jack***	11	USB 3.2 Gen2 Port (USB32_3)
5	Line Out Jack***	12	USB 3.2 Gen2 Ports (USB32_12)
6	Antenna Ports	13	HDMI Port
7	Optical SPDIF Out Port		

- Plug the DC cord of the AC adapter to the power connector and the plug the end of AC adapter to and electrical outlet socket(110V/220V)
- Connect DC cord of adapter 12V DC (option 24v or 220v) to the computer

1.2 Features

- AOD150 has 15” SXGA LCD and support up to 75Hz.
- Second connection external monitor via DVI (Digital) possible.
- Microphone and speaker integration possible (option).
- You can adjust brightness, contrast, horizontal & vertical positions by OSD
- menus and use auto adjust function for instant adjustment.
- High-qualified LCD Controller inside
- Robust design and power saving mode
- 100% compatible with Windows PC environment without the installation of
- driver CD or software program.

1.3 Plug and Play Function

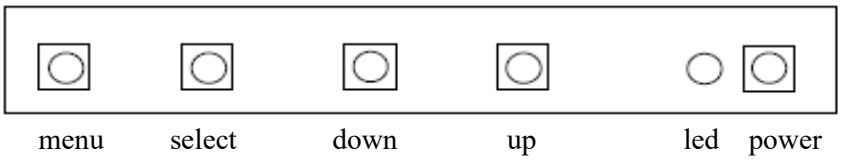
AOD150 is installed with OS on demand. These units are completely installed with activation completed and with latest drivers for plug and play functionality.

1.4 Safety Precaution

We strongly recommend that you carefully read this User’s Manual before operating your computer. FOLLOW INSTRUCTIONS in this manual.
Please read and comprehend all using directives before use this machine.

- **Power**
  Use the type of power indicated on the marking label.
- **Adapter**
  Only use an adapter designed of the LCD monitor.
- **Plug**
  Do not remove any of the prongs of the monitor's three-pronged power plug.
  Disconnect the power plug from the AC outlet if you will not use it for an indefinite period of time.
- **Power and extension cord**
- Use the proper power cord with ground conductor
  Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 7 amperes.
  Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- **Care and maintenance**
  Slots and openings in the cabinet are provided for ventilation. Do not block or cover these openings. Do not push objects of any kind into cabinet slots or openings. The screen surface is easily scratched. Do not use paper towels to clean the display. Avoid touching it with your fingers, pens, or pencils.
- Turn off the AC adapter and the monitor over long periods when not in use.

1.5 OSD (On-Screen-Menu)



Button	Function	Status	HOT Key
LED	Indicates operation status	Green: Normal Operation Yellow(Amber): No valid input, No Signal, Off Mode	
POWER	Turn on or turn off the power		
MENU	Display the OSD menu on no menu status		
SELECT	Select highlighted function		Auto Configuration on no menu status(RGB Only)
UP	Select next menu item Increase slider value		Auto Color on no menu status(RGB only)
DOWN	Select previous menu item Decrease slider value		

1.6 OSD Menu

ITEM	Sub Menu	Description	Remarks
PICTURE	Backlight	Adjust the backlight level of the screen image	100
	Brightness	Adjust the background black level of the screen image	
	Contrast	Adjust the contrast between the objects and background	
	Sharpness	Make the outline of objects more clear or blurry	
DISPLAY	Auto Adjustment	Automatically sizes, centers, and fine tunes the video signal to eliminatewaviness and distortion	RGB only
	H Position	Move the image horizontal position	
	V Position	Move the image vertical position	
	Pixel Clock	Adjust picture width	RGB only
	Phase	Adjust picture focus quality	
COLOR	Gamma	Select the gamma	
	Color Temp	Allow selection of different color temperature schemes. (User, Standard, 5800K, 6500K, 7500K, 9300K)	
	Color Effect	Select the Color Effect (Standard, Vivid, Photo, Movie, Game)	
	Hue	Increase/decrease Hue level,	

	Saturation	Increase/decrease Saturation level,	
ADVANCE	Aspect Ratio	Selections are Full Screen, Original, 5:4, 4:3, 16:9	
	Overscan	On/Off	
	Light Sensor	Not Supported	
	Temp Sensor	Not Supported	
INPUT	Auto Select	Auto source select	
	VGA	VGA source select	
	DVI	DVI source select	
OTHER	Reset	Reset to factory settings	
	Menu Time	Adjust the OSD menu timeout	
	OSD H Position	Adjust the OSD horizontal position	
	OSD V Position	Adjust the OSD vertical position	
	Language	Select OSD menu language	
	Transparency	Change the transparency of the OSD	
	Rotate	Rotates the OSD	

1.7 OSD Messages

OUT OF FREQUENCY

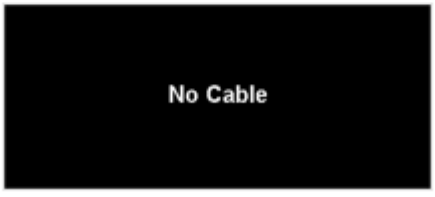
▪Input Signal is over the supporting range

POWER SAVER MODE

▪Input Signal is not present. This message is disappeared after 5 seconds.

SELF DIAGNOSTICS

▪Input signal or cable is not present after power on with power switch. This message is not disappeared before power off or activity of input signal or connect cable.



1.8 Specifications

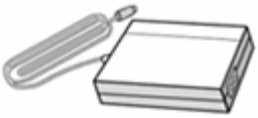
Name: AOD 15" (touch) Computer Z790M

Monitor specs:	
Color panel:	Black powder Coated (other colors on request)
Model:	15 inch XGA TFT LCD Monitor
Type:	15" Color Active Matrix TFT LCD (AUO G150XG03 V5)
Resolution (max):	1024 x 768 (XGA)
Color:	16,2 million
Pixel:	0.297 x 0.1297 mm
Brightness:	350 cd/m²
Contrast ratio:	700:1
Viewing angle:	85°/85° horizontal & 80°/80° vertical
Respons time	8 ms
Active area:	304,1 (H) x 228,1 (V) mm
Computer specs:	
Type computerboard	Intel Z790M-ITX
Chipset	Intel® Z790M
Processor	Processor Intel Core i5 12400, 65W, 12th gen. 2.5 upto 4.4Ghz, 6 core, 12 thread, ID Graphics 730
Memory	- Dual Channel DDR5 Memory Technology x DDR5 DIMM Slots upports DDR5 non-ECC, un-buffered memory up to 7000+(OC)* lax. capacity of system memory: 128GB upports Intel® Extreme Memory Profile (XMP) 3.0
Bios	- 128Mb AMI UEFI Legal BIOS with GUI support
Flashmodule/ Harddisk	• 2 x Hyper M.2 Sockets, supports type 2280 SATA3 6.0 Gb/s & PCIe Gen4x4 (64 /s) modes x SATA3 6.0 Gb/s Connectors
RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices upports RAID 0, RAID 1 and RAID 5 for M.2 NVMe storage devices* equires additional M.2 NVMe expansion cards to support RAID 5
Graphics	- Intel® UHD Graphics ntel® Xe Graphics Architecture (Gen 12) eDP 1.4, supports max. resolution up to Full HD 60Hz HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K Hz DisplayPort 1.4 with DSC (compressed), supports HDCP 2.3 and max. resolution to 8K 60Hz / 5K 120Hz
LAN (RJ-45)	1 x 2.5 Gigabit LAN 10/100/1000/2500 Mb/s (Intel® I226V) Gigabit LAN 10/100/1000 Mb/s (Intel® I219V)
Audio	- 7.1 CH HD Audio (Realtek ALC897 Audio Codec) ahimic Audio
Operating system	Windows 7, 8, 10, 11, Linux, Win CE, Win7emb, Win10IOT or 11IOT.
Rear Panel I/O:	2 x Antenna Ports HDMI Port

	DisplayPort 1.4 Optical SPDIF Out Port USB 3.2 Gen2 Type-A Ports (10 Gb/s) USB 3.2 Gen2x2 Type-C Port (20 Gb/s) USB 2.0 Port RJ-45 LAN Ports Line Out Jack (Gold Audio Jack) Microphone Input Jack (Gold Audio Jack)
Internal connectors:	1 x eDP Signal Connector RGB LED Header* Addressable LED Header** CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control) Chassis Fan Connectors (4-pin) 24 pin ATX Power Connector 8 pin 12V Power Connector (Hi-Density Power Connector) Front Panel Audio Connector USB 2.0 Header (Supports 2 USB 2.0 ports) USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s)
Options:	
Functionality:	With or without touch
- without touch:	Options: No protection, Acrylic, Float or Hardened glass
- with touch:	5 wire resitive, Surface Accoustic Wave or Projected Capacitive
Type of Touch:	Not sure what to use? Call us at +31 (0)45 5748190 or send us e-mail
- 5 wire resistive :	-Standard non-glare. -Touchable with finger, glove and stylus. -Single touch -activation force less than 40 gramm.
- SAW:	-Standard glare. -Touchable with finger and glove. -Single touch -activation force less than 85 gramm.
- Projected Capacitive:	-Standard glare. -Touchable with finger, glove and pcap stylus. -10 points touch -activation force less than 1 gramm.
External protection:	Standard IP44 or IP65 or higher (not for SAW)
Memory capacity:	No memory (standard), 2, 4, 8 or 16 Gb SoDimm
Storage capacity Sata:	No storage (standard), Harddisk 2TB or SSD in 120/240/480 or 960 GB
Operating system:	NO OS (standard), Win7/8/10/11, Win 10 or 11 IOT, Linux
Input equipment:	None (standard) or wireless keyboard/mouse
Accoustic options:	No speakers/ microfone (standard), Soundbar 2x2Watt integrated, Soundbar + microfone integrated.

1.9 Contents of Package

Computer system



AC/DC Adapter

Power cord

Drivers cd

Other Cables (option)

1.10 Troubleshooting

TO REDUCE THE RISK OF ELECTRIC SHOK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONELLE.

- The system does not respond after you turn on the system :
  -Make sure that the monitor is turned on via OSD button.
  -Turn off the power and check the system's power cord, AC adapter,
  for proper connection.

- Appear the " No Input the Signal" :
  -Check the connecting of the vga cable on I/O panel computer and power on computer.

- Appear the " Input Not the Supported" :
  -Input signal are insuperable, reset the video mode and adjust video driver settings.
- The appearance is not at the screen center.:
  -Use "AUTO ADJUST", refer to the Controls section.
- The characters on the screen are too dim or too bright
  -Choose fit color temperature, use "AUTO COLOUR ADJUST or manually adjust
  "RGB ADJUSTMENT, refer to the Control section.