

USER'S MANUAL

AOD/ATS 190 metal case (touch) computer
Type: N100



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:



I/O panel computer

**Power input 12VDC
(24VDC option)**

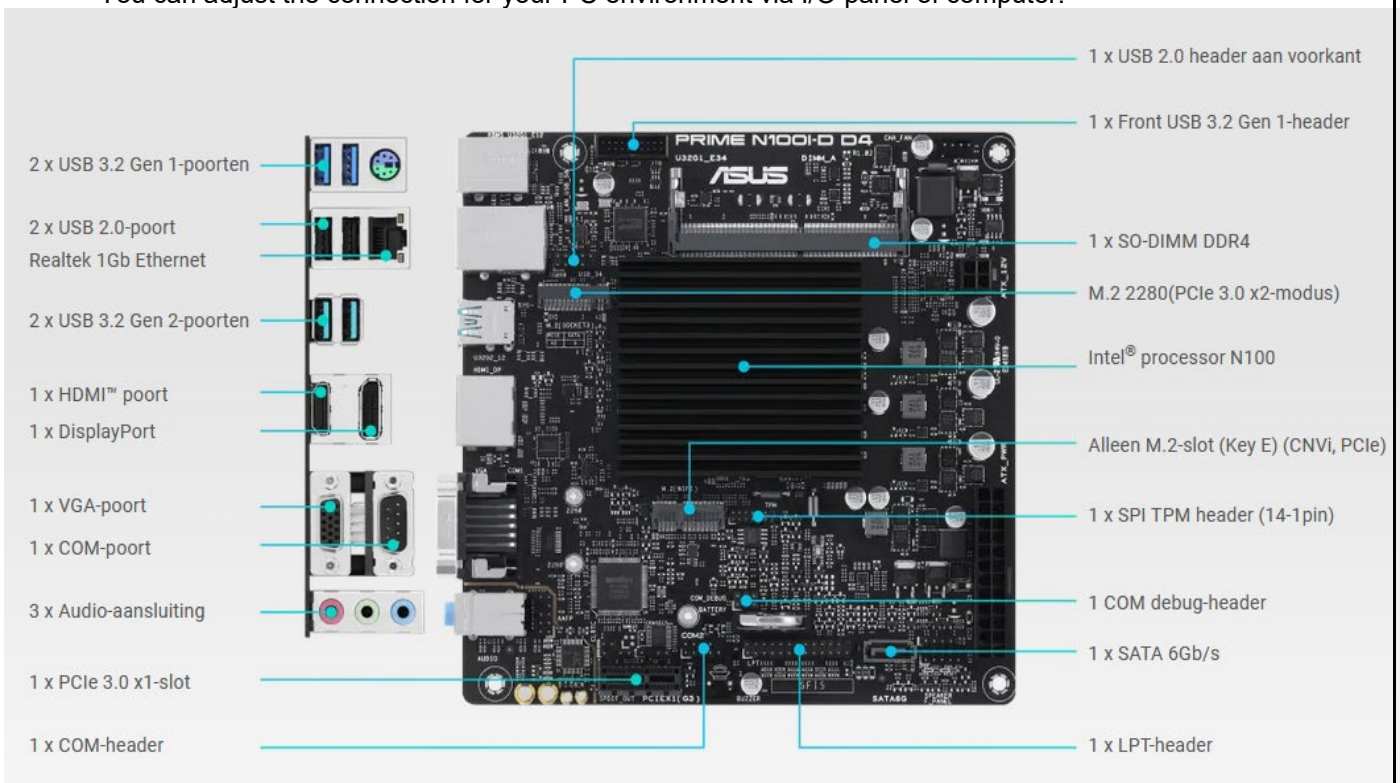
Power button

OSD Control

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:



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

1.2 Features

- AOD190 has 19" LCD and support up to 75Hz.
- Mini ITX format Computer with quad core Intel N100 upto 3.4 Ghz processor Passive cooled !
- 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

AOD190 is installed with OS on demand. These units are completely installed with activation completed and with latest drivers for plug and play functionality.

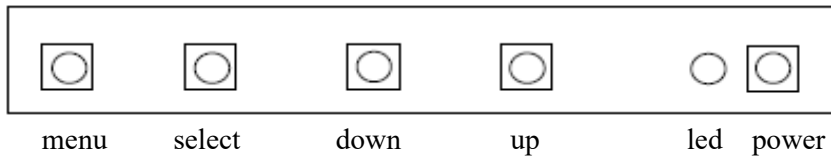
1.4 Safety Precaution

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.

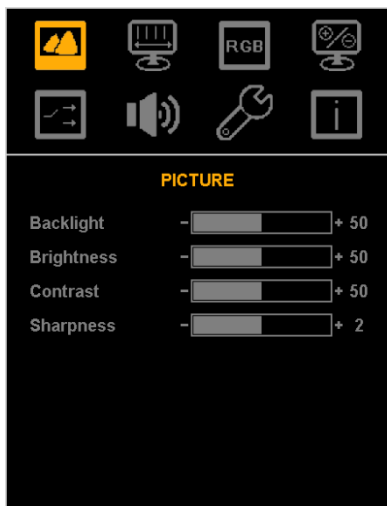
- **Power**
Use the type of power indicated on the marking label.
- **Adapter**
Only use an adapter designed of the LCD monitor.
- **Plug**
Do not remove any of the prongs of the monitor's three-pronged power plug.
Disconnect the power plug from the AC outlet if you will not use it for an indefinite 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 eliminate waviness 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

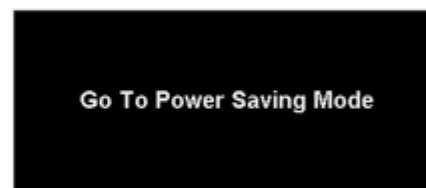
OUT OF FREQUENCY

- Input Signal is over the supporting range



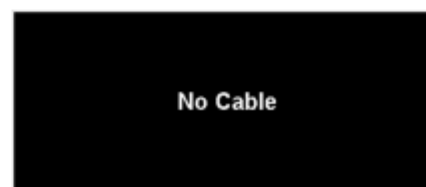
POWER SAVER MODE

- 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 / ATS 19" (touch) Computer N100

Monitor specs:

Color:	Black powder Coated (other colors on request)
Model:	19 inch XGA TFT LCD Monitor
Type:	19 inch Color Active Matrix TFT LCD (LG LM190EOA)
Resolution (max):	1280 x 1024 (SXGA)
Color:	16,7 million
Pixel:	0.0976 x 0.2928 mm
Brightness:	300 cd/m ²
Contrast ratio:	800:1
Viewing angle:	89°/89° horizontal & 89°/89° vertical
Response time	8 ms
Active area:	376,32 (H) x 301,056 (V) mm

Computer specs:

Type computerboard	Intel N100 Quad core upto 3.4 Ghz, passive cooled
Chipset	No seperate chipset
Memory	1 x SO-DIMM, Max. 16GB, DDR4 3200/2933/2800/2666/2400/2133 Non-ECC, Un-buffered Memory* * We recommend that you use 16GB or less memory module. * Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory configuration, for more information please refer to CPU/Memory Support list under the Support tab of product information site or visit https://www.asus.com/support/
Bios	128 Mb Flash ROM, UEFI AMI BIOS
Processor	Intel N100 Quad core upto 3.4 Ghz processor
Flashmodule/ Harddisk	Total supports 1 x M.2 slot and 1 x SATA 6Gb/s port 1 x M.2 Socket 3 with M key, type 2260/2280 (supports PCIe 3.0 x 2 mode) 1 x SATA 6Gb/s port
Graphics	1 x DisplayPort** 1 x VGA port 1 x HDMI™ port*** *Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates. **Supports max. 4K@60Hz as specified in DisplayPort 1.4. ***Supports 4K@60Hz as specified in HDMI™ 2.1.
LAN (RJ-45)	1 x Realtek 1Gb Ethernet ASUS LANGuard
Wireless&Bluetooth	Wlan: With WLAN+BT; RTL8822CE Wireless NIC dual-band 802.11ac 1200Mbps M2 Wifi card + 5.0 Bluetooth (Option)
Audio	Realtek 7.1 Surround Sound High Definition Audio CODEC* - Supports: Jack-detection, Multi-Recording, Front Panel Jack-retasking - Supports up to 24-Bit/192 kHz playback" Audio Features - Audio Shielding - Premium audio capacitors

* A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio output.

Operating system

Windows 7, 8, 10, 11, Linux, Win CE, Win7emb, Win10IOT or 11IOT.

I/O system:

2 x USB 3.2 Gen 2 (10G) ports (2 x Type-A)
2 x USB 3.2 Gen 1 (5G) ports (2 x Type-A)
2 x USB 2.0 ports (2 x Type-A)
1 x DisplayPort
1 x VGA port
1 x HDMI™ Port
1 x COM port
1 x Realtek 1Gb Ethernet port
3 x Audio jacks
1 x PS/2 Keyboard/Mouse combo port

Internal I/O:

Fan and cooling related

1 x 4-pin Chassis Fan header

Power related

1 x 24-pin Main Power connector

1 x 4-pin +12V Power connector

Storage related

1 x M.2 slot (Key M)

1 x SATA 6Gb/s port

USB

1 x USB 3.2 Gen 1 (5G) header supports 2 additional USB 3.2 Gen 1 ports

1 x USB 2.0 header supports 2 additional USB 2.0 ports

Miscellaneous

1 x Clear CMOS header

1 x COM Port header

1 x Front Panel Audio header (AAFP)

1 x M.2 slot (Key E)

1 x Chassis Intrude header

1 x LPT header

1 x S/PDIF out header

1 x SPI TPM header (14-1pin)

1 x Speaker Header

1 x System Panel connector

Energy requirements

35W normal use; 80 W max.; 5 W stand by.

Power

Power supply 84 W External

Weight

5 Kg

Mounting:

VESA 100mm; (Bracket/ stand is optional; See: [mounting_brackets](#))

Dimensions system(B x H x D)

424x350x88 mm (model without bezel)

Options:

Functionality:

With or without touch

- without touch:

Options: No protection, Acrylic, Float or Hardened glass

- with touch:

5 wire resistive, 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.
- Standard glare.
- Touchable with finger, glove and pcap stylus.
- 10 points touch
- activation force less than 1 gramm.

Projected Capacitive:

External protection:

Standard IP44 or IP65 or higher (not for SAW)

Memory capacity:

No memory (standard), 2, 4 or 8 Gb SoDimm

Storage capacity Sata:

No storage (standard), Harddisk 500 Gb or SSD in 120/240/480 GB or 1TB.

Operating system:

NO OS (standard), Win7/8/10/11, Win 10 or 11 IOT, Linux

Input equipment:

None (standard) or wireless keyboard/mouse

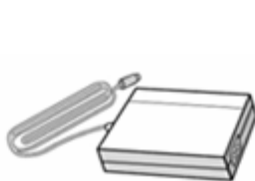
Accoustic options:

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 SHOCK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- 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.