

# **LCD Monitor User Manual**

AG273QG LED backlight





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# Safety

### **National Conventions**

The following subsections describe notational conventions used in this document.

#### Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



NOTE: A NOTE indicates important information that helps you make better use of your computer system.



**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**WARNING:** A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

#### **Power**

The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.



Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 5A.



The wall socket shall be installed near the equipment and shall be easily accessible.

### Installation

Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.



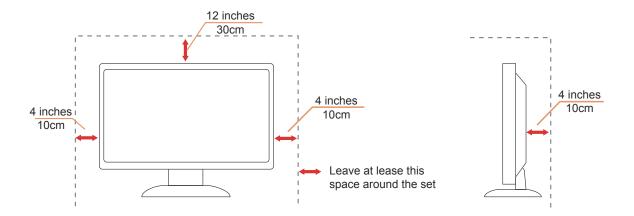
Do not place the front of the product on the floor.

If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

#### Installed with stand

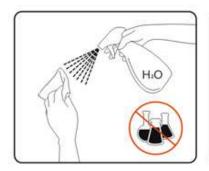


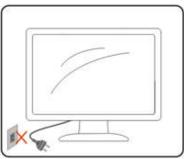
## Cleaning

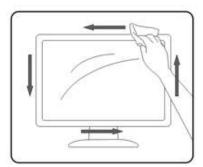
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

Please disconnect the power cord before cleaning the product.







### Other

If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.



Make sure that the ventilating openings are not blocked by a table or curtain.



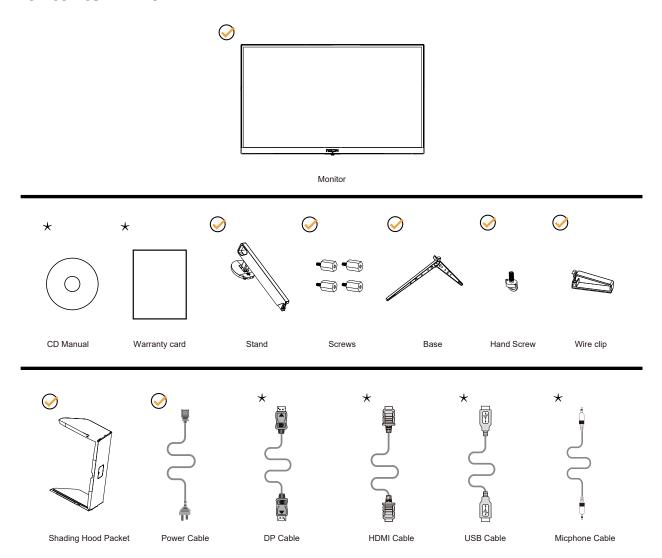
♠ Do not engage the LCD monitor in severe vibration or high impact conditions during operation.



⚠Do not knock or drop the monitor during operation or transportation.

# Setup

### **Contents in Box**

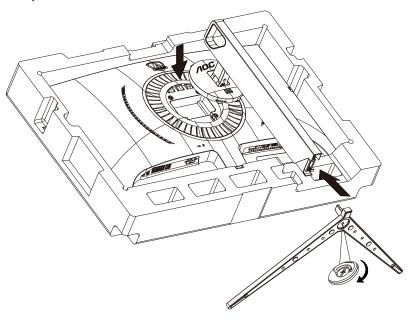


Not all signal cables (DP, HDMI, USB and Micphone cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

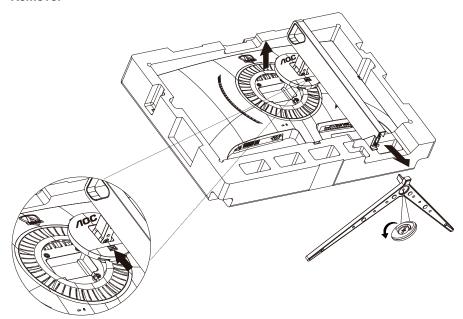
## **Setup Stand & Base**

Please setup or remove the base following the steps as below.

### Setup:



#### Remove:



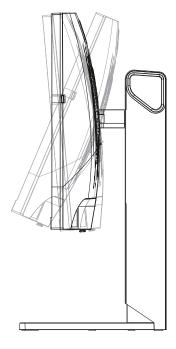
## **Adjusting Viewing Angle**

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

You are able to adjust the monitor as below:



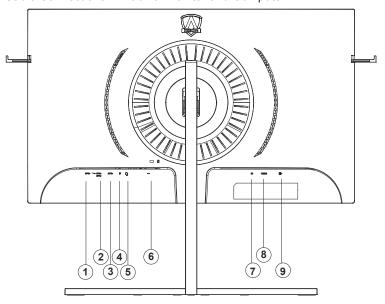




Do not adjust the viewing angle over 23 degrees in order to avoid damage.

### **Connecting the Monitor**

Cable Connections In Back of Monitor and Computer:



- 1. USB-PC (USB upstream)
- 2. USB 3.2 Gen 1(fast charging) x 1,USB 3.2 Gen 1 x 1
- 3. USB 3.2 Gen 1 x 2
- 4. Microphone in
- 5. Earphone (Combined with Microphone)
- 6. AC in
- 7. DP
- 8. HDMI
- 9. Microphone out (Connect to PC)

#### Connect to PC

- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on the back of your computer.
- 4. Plug the power cord of your computer and your display into a nearby outlet.
- 5. Turn on your computer and display.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

To protect equipment, always turn off the PC and LCD monitor before connecting.

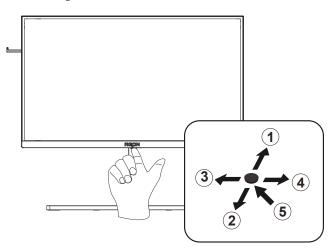
### **G-SYNC** function

Compatible Graphics Card: GeForece GTX 650 Ti Boost or higher (for a list of compatible graphics cards, please visit www.nividia.com/G-SYNC)

Driver: GeForece 331.58 or higer OS: Windows 7/8/8.1/10

# **Adjusting**

### **Hotkeys**



1	Source/Up
2	Dial Point/Down
3	Game Mode/Left
4	Light FX /Right
5	Power/ Menu/Enter

#### Power/Menu/Enter

Press the Power button to turn on the monitor.

When there is no OSD, Press to display the OSD or confirm the selection. Press about 2 seconds to turn off the monitor.

#### **Dial Point/Down**

When there is no OSD, press Dial Point button to show / hide Dial Point.

#### **Game Mode/Left**

When there is no OSD, press "Left" key to open game mode function, then press "Left" or "Right" key to select game mode (FPS, RTS, Racing, Gamer 1, Gamer 2 or Gamer 3) basing on the different game types.

#### Light FX/Right

When there is no OSD, press "Right" key to active Light FX function.

#### Source/Up

When the OSD is closed, press Source/Up button will be Source hot key function.

### **OSD Key Guide (Menu)**



Enter: Use Enter key to enter the next OSD level Move: Use Left / Up / Down key to move OSD selection

Exit: Use Right key to exit OSD



Enter: Use Enter key to enter the next OSD level

Move : Use Right / Up / Down key to move OSD selection

Exit: Use Left key to exit OSD



Enter: Use Enter key to enter the next OSD level Move: Use Up / Down key to move OSD selection

Exit: Use Left key to exit OSD



Move : Use Left / Right / Up / Down Key to move OSD selection



Exit: Use Left key to exit OSD to previous OSD level Enter: Use Right key to enter next OSD level Select: Use Up / Down key to move OSD selection



Enter: Use Enter key to apply the OSD setting and back to previous OSD level

Select: Use Down key to adjust OSD setting



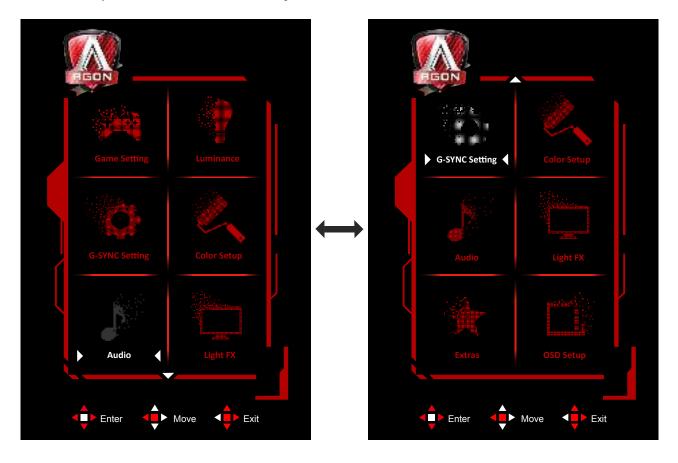
Select: Use Up / Down key to adjust OSD setting



Enter: Use Enter key to exit OSD to previous OSD level Select: Use Left / Right key to adjust OSD setting

### **OSD Setting**

Basic and simple instruction on the control keys.



- 1). Press the MENU-button to activate the OSD window.
- 2). Follow Key Guide to move or select (adjust) OSD settings
- 3). OSD Lock/Unlock Function: To lock or unlock the OSD, press and hold the Down–button for 10s while OSD function is not active.

#### Notes:

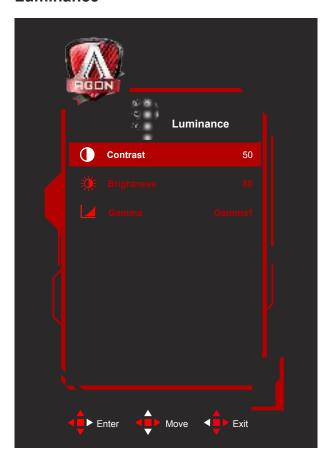
If the product has only one signal input, the item of "Input Select" is disable to adjust.

### **Game Setting**



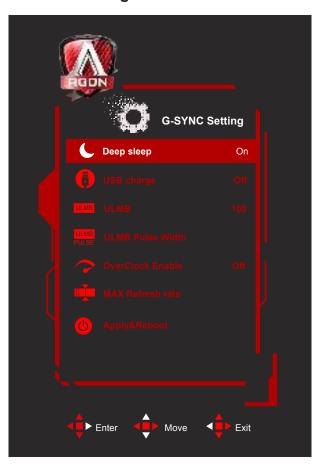
		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
	Game Mode	Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
		off	No optimization by Smart image game
<b>3110</b>	Shadow Control	0-3	Shadow Control Default is 0, then end-user can adjust from 0 to 3 or 0 to increase contrast for clear picture.  1. If picture is too dark to be saw the detail clearly, adjusting from 0 to 3 for clear picture  2. If picture is too white to be saw the detail clearly, adjusting from 3 to 0 for clear picture
	Game Color	0-200	Game Color will provide 0-200 level for adjusting saturation to get better picture.
	Dial Point	On/off	The "Dial Point" function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.
	Overdrive	Weak/Medium/ Strong/Off	Adjust the response time.
	Frame Counter	Off/Right-Up/Right- Down/Left-Down/ Left-Up	Display V frequency on the corner selected (Frame counter feature only works with NVidia graphic card.)

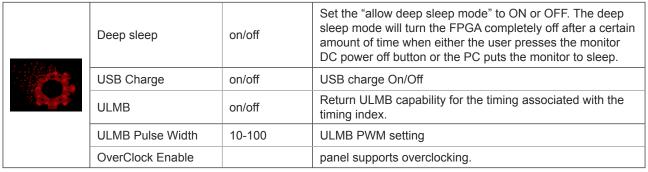
### Luminance



Contrast Brightness		0-100	Contrast from Digital-register.
		0-100	Backlight Adjustment
Gamma		Gamma1	Adjust to Gamma 1
	Gamma Gamma2 Gamma3	Gamma2	Adjust to Gamma 2
		Adjust to Gamma 3	

#### **G-SYNC Setting**





#### Note:

With Nvida® Ultra Low Motion Blur(ULMB) technology, objects in motion look sharper than they do during standard operation -even at high refresh rates such as 85hz, 100hz, 120hz.

Warning: If any display error or crash occurs during overclocking, remove and connect the DP cable or power cord to restart the display.

### Color Setup



	LowBlue Mode	Off/Multimedia/ Internet/Office/ Reading		Decrease blue light wave by controlling color temperature.
		Warm		Recall Warm Color Temperature from EEPROM.
Color Temp.	Normal		Recall Normal Color Temperature from EEPROM.	
	Cool		Recall Cool Color Temperature from EEPROM.	
	Color Temp.	sRGB		Recall SRGB Color Temperature from EEPROM.
		Red	Red Gain from Digital-register	
		User	Green	Green Gain Digital-register.
			Blue	Blue Gain from Digital-register

### Audio



<b>6</b>	Volume	0-100	Adjust volume setting
	DTS Sound	on /off	DTS On/Off

### Light FX



	Light FX	Off/Low/Medium/Strong	Light FX On/Off	
	Light FX Mode	Static/Simple Shift/ Gradient Shift/Simple Filling/1 Way Filling/2 Way Filling/Breathing/Motion Point/Zoom/Discolor/ Water Wave/Flashing/ Demo	Select Light FX Mode	
	Pattern	Red/Green/Blue/ Rainbow/User Define	Select Light FX Pattern	
	Foreground R	0-100		
	Foreground G		User can adjust Light FX foreground color, when Pattern setting to user define	
	Foreground B		r attern setting to user using	
	Background R			
	Background G	0-100	User can adjust Light FX background color, when Pattern setting to user define	
	Background B		. attorn setting to user usinio	

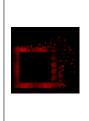
### **Extra**



Input Select	HDMI/DP	Select Input Signal Source
Reset		Reset the menu to default

### OSD Setup





Language		Select the OSD language	
Timeout	10-120	Adjust the OSD Timeout	
H. Position	0-100	Adjust the horizontal position of OSD	
V. Position	0-100	Adjust the vertical position of OSD	
Transparence	0-100	Adjust the transparence of OSD	
Break Reminder	on /off	Break reminder if the user continuously work for more than 1hrs	

## **LED Indicator**

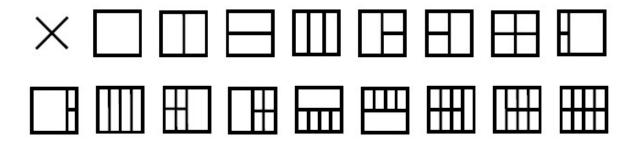
Status	LED Color
Full Power Mode	Red
Active-off Mode	Orange

# **Driver**

### Screen+



Welcome to "Screen+" software by AOC. Screen+ software is a desktop screen splitting tool, it splits the desktop into different panels, and each panel displays a different window. You only need to drag the window to a corresponding panel when you want to access it. It supports multiple monitor display to make your task easier. Please follow the installation software to install it. The software Supported operating systems: Windows 10, Windows 8, Windows 7.



# **Troubleshoot**

Problem & Question	Possible Solutions		
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.		
No images on the screen	<ul> <li>Is the power cord connected properly? Check the power cord connection and power supply.</li> <li>Is the cable connected correctly? (Connected using the HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection. *HDMI/DP input is not available on every model.</li> <li>If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen. If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 7/8/10) and then change the frequency of the video card. (Refer to the Setting the Optimal Resolution) If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.</li> <li>Can you see "Input Not Supported" on the screen? You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly. Adjust the maximum resolution and frequency that the monitor can handle properly.</li> <li>Make sure the AOC Monitor Drivers are installed.</li> </ul>		
Picture Is Fuzzy & Has Ghosting Shadowing Problem	Adjust the Contrast and Brightness Controls.  Press to auto adjust.  Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.		
Picture Bounces, Flickers Or Wave Pattern Appears In The Picture	Move electrical devices that may cause electrical interference as far away from the monitor as possible.  Use the maximum refresh rate your monitor is capable of at the resolution you are using.		
Monitor Is Stuck In Active Off- Mode"	The Computer Power Switch should be in the ON position. The Computer Video Card should be snugly fitted in its slot. Make sure the monitor's video cable is properly connected to the computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.		
Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged.  Make sure the monitor's video cable is properly connected to the computer.		
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.		
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.		
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual or www.aoc.com (to find the model you purchase in your country and to find Regulation & Service Information in Support page.		

# **Specification**

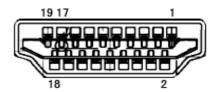
## **General Specification**

	Model name	AG273QG			
Panel	Driving system	TFT Color LCD			
	Viewable Image Size	68.5 cm diagonal	68.5 cm diagonal		
	Pixel pitch	0.2331mm(H) x 0.233	1mm(V)		
	Display Color	16.7M Colors			
	Horizontal scan range	30k~140kHz(HDMI) 1k~240kHz(DP)			
	Horizontal scan Size(Maximum)	596.74mm			
	Vertical scan range	24~60Hz(HDMI) 1~165Hz(DP)			
	Vertical Scan Size(Maximum)	335.66mm			
	Optimal preset resolution	2560x1440@60Hz			
Others	Max resolution		2560x1440@60Hz(HDMI) 2560x1440@165Hz(DP)		
	Plug & Play	VESA DDC2B/CI	2B/CI		
	Power Source	100~240V, 1.5A, 50/60Hz			
		Typical(Brightness = 90,Contrast = 50)		60W	
	Power Consumption	Max. (brightness = 100, contrast =100)		≤110W	
		Power saving		≤0.5W	
Physical	Connector Type	HDMI/DP/USB/Earphone out			
Characteristics	Signal Cable Type	Detachable			
	Townsonting	Operating	0°~ 40°		
	Temperature	Non-Operating	-25°~ 55°		
En income and al	Literation of the control of the con	Operating 10% ~ 85% (non-condensing)		ndensing)	
Environmental	Humidity	Non-Operating	5% ~ 93% (non-condensing)		
	Altitudo	Operating 0~ 5000 m (0~ 16404ft )		4ft )	
	Altitude	Non-Operating	0~ 12192m (0~ 40000ft )		

# **Preset Display Modes**

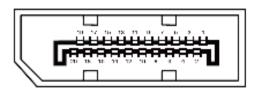
STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)	
VGA	640×480 @60Hz	31.469	59.940	HDMI/DP
EDTV	576P @50Hz	31.250	50.000	HDMI
EDTV	720x480 @60Hz	31.469	59.940	HDMI
SVGA	800×600 @60Hz DMT	37.879	60.317	HDMI/DP
XGA	1024×768 @60Hz DMT	48.363	60.004	HDMI/DP
HDTV	720P @50Hz (1280x720) VIC 19,68	37.500	50.000	HDMI
HDTV	720P @60Hz (1280x720) VIC4,69	44.955	59.940	HDMI
FHD	1080P @50Hz for Digital only VIC 31,75	56.250	50.000	HDMI
FHD	1920×1080@60Hz CVT16:9 R VIC 16,76	67.500	60.000	HDMI
QHD	2560×1440 @60Hz CVT16:9 R	88.787	59.951	HDMI/DP
QHD	2560x1440 @85Hz NVIDIA G-Sync	127.390	84.983	DP
QHD	2560x1440 @100Hz NVIDIA G-Sync	150.919	99.946	DP
QHD	2560x1440 @120Hz NVIDIA G-Sync	182.996	119.998	DP
QHD	2560x1440 @144Hz NVIDIA G-Sync	222.189	143.998	DP
QHD	2560x1440 @165Hz NVIDIA G-Sync	240.735	165.000	DP

# **Pin Assignments**



19-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1.	TMDS Data 2+	9.	TMDS Data 0-	17.	DDC/CEC Ground
2.	TMDS Data 2 Shield	10.	TMDS Clock +	18.	+5V Power
3.	TMDS Data 2-	11.	TMDS Clock Shield	19.	Hot Plug Detect
4.	TMDS Data 1+	12.	TMDS Clock-		
5.	TMDS Data 1Shield	13.	CEC		
6.	TMDS Data 1-	14.	Reserved (N.C. on device)		
7.	TMDS Data 0+	15.	SCL		
8.	TMDS Data 0 Shield	16.	SDA		



20-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name	
1	ML_Lane 3 (n)	11	GND	
2	GND	12	ML_Lane 0 (p)	
3	ML_Lane 3 (p)	13	CONFIG1	
4	ML_Lane 2 (n)	14	CONFIG2	
5	GND	15	AUX_CH(p)	
6	ML_Lane 2 (p)	16	GND	
7	ML_Lane 1 (n)	17	AUX_CH(n)	
8	GND	18	Hot Plug Detect	
9	ML_Lane 1 (p)	19	Return DP_PWR	
10	ML_Lane 0 (n)	20	DP_PWR	

### **Plug and Play**

#### Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.



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