



# TEOSWIDE 22BJ

User Manual

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# Chapter 1: General Information

## 1.1 Introduction & Features

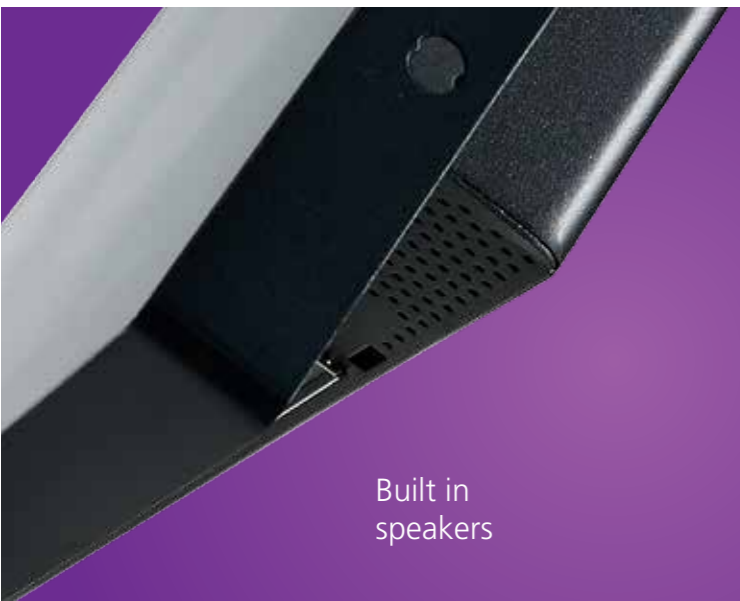
Side bracket



HDD or SSD can be easily accessed for maintenance



Built in speakers



Vesa 100x100 mount



## 1.2 Specification

Model	TEOSWIDE 22BJ
Processor	Intel® Baytrail Celeron J1900 2.0Ghz
System Memory	2 GB Standard, Maximum 8G (DDR3L)
Power Supply	84W
Storage Device	1 x 2.5" SATA HDD or SSD
Chipset	Intel® ICH8-M
Speaker	1W Speaker / 2 Channel
Housing Color	Black
Construction	Sheet Metal, Glass, ABS

## 1.3 LCD Information

LCD Display	21.5" TFT Active Matrix Panel	
Display Size	476.64 (H) x 268.11 (V) mm	
Pixel Pitch	0.24825 (H) x 0.24825 (V) mm	
Display Mode	SVGA 800 x 600 (60 Hz) SVGA 800 x 600 (72 Hz) SVGA 800 x 600 (75 Hz) XGA 1024 x 768 (60 Hz) XGA 1024 x 768 (70 Hz) XGA 1024 x 768 (75 Hz) XGA 1152 x 864 (60 Hz) SXGA 1280 x 1024 (60 Hz) SXGA 1280 x 1024 (75 Hz)	WXGA 1280 x 800 (60 Hz) WXGA 1280 x 768 (60 Hz) WXGA 1440 x 900 (60 Hz) WXGA 1600 x 900 (60 Hz) WXGA 1600 x 900 (75 Hz) WXGA 1680 x 1050 (60 Hz) HD 1280 x 720 (60 Hz) HD 1920 x 1080 (60 Hz)
Native	FHD 1920 x 1080 (60 Hz)	
Non-touch	250 cd/m2 (Typical)	
Projected Capacitive Touch	225 cd/m2 (Typical)	
Response Time	Tr= 5 msec (Typical)	
Display Color	16.7 million	
Viewing Angle	(L/R)= -85°/+85° (typical), (U/D) -80°/+80° (Typical)	
Plug & Play	DDC 2B	

## 1.4 Environmental Specification

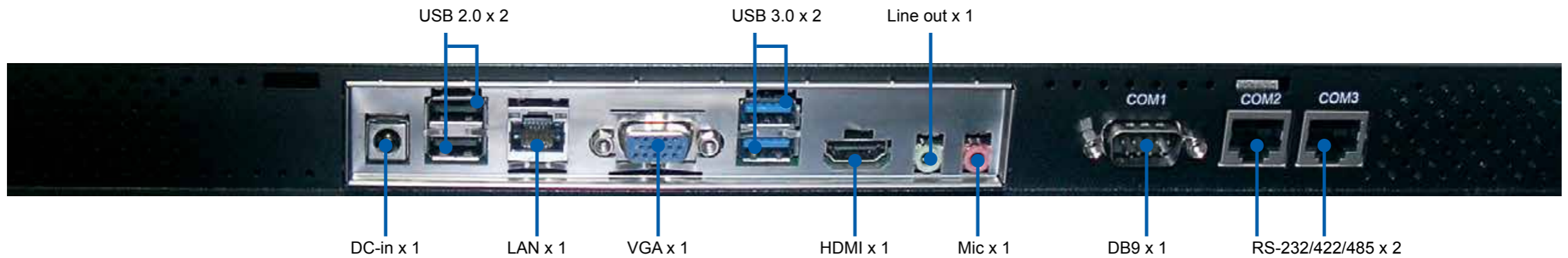
Temperature Ranges	
Operating Temperature (Independent of altitude)	0°C to 40°C
Non-Operating Temperature (Independent of altitude)	-20°C to 60°C
Humidity	
Operating (non-condensing)	20% to 80%
Non-Operating (38.7C maximum wet bulb temperature)	10% to 90%
Altitude Ranges	
Operating	0 to + 2000 m
Non-Operating	0 to + 12192 m

## 1.5 Power Supply Specification

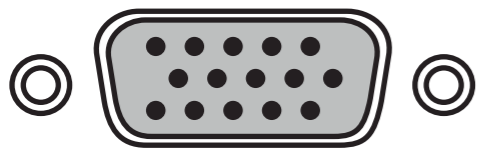
Input voltage	100 to 240 V~
Input frequency	50/60 Hz
Output voltage	12 V
Output line and load regulation	+/- 5%
Output current	7 Amps Rated

# 1.6 I/O Interface & Pin Definition

Serial Port	3 External: COM1 (DB9); COM2, COM3 (RJ-232/422/485)
USB	USB 3.0 x 2; USB 2.0 x 2
Ethernet	LAN x 1
Video	VGA x 1; HDMI x 1
Audio	Line out x 1; Mic x 1
DC output	DC Jack 12V x 1

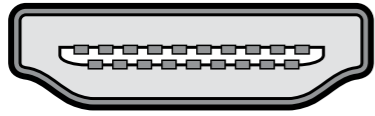


## VGA



PIN	DESC	PIN	DESC	PIN	DESC
1	Red	6	GND	11	N.C.
2	Green	7	GND	12	SPCLK
3	Blue	8	GND	13	HSYNC
4	N.C.	9	N.C.	14	VSYNC
5	GND	10	GND	15	SPCLK

## HDMI™



PIN	DESC	PIN	DESC	PIN	DESC	PIN	DESC
1	TMDS Data2+	6	TMDS Data1-	11	TMDS Clock Shield	16	DDC data
2	TMDS Data2 Shield	7	TMDS Data0+	12	TMDS Clock-	17	Ground
3	TMDS Data2-	8	TMDS Data0 Shield	13	CEC	18	+5 V
4	TMDS Data1+	9	TMDS Data0-	14	NC	19	Hot Plug detect
5	TMDS Data1 Shield	10	TMDS Clock+	15	DDC clock		

## DC-IN



PIN	DESC
1	DC in (12V only)
2	GND

## USB 3.0



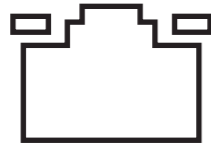
PIN	DESC
1	VBUS
2	-Data
3	+Data
4	GND

## USB 3.0



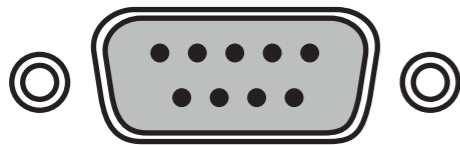
PIN	DESC
1	VBUS
2	-Data
3	+Data
4	GND
5	StdA_SSRX-
6	StdA_SSRX+
7	GND_DRAIN
8	StdA_SSTX-
9	StdA_SSTX+

## COM RS-232



PIN	DESC
1	RI-
2	CTS-
3	GND
4	RTS-
5	DTR-
6	DSR-
7	TX
8	RX

## COM RS-232



PIN	DESC
SHELL	GND
1	DCD, Data carrier detect
2	RXD, Receive data
3	TXD, Transmit data
4	DTR, Data set ready
5	GND, ground
6	DSR, Data set ready
7	RTS, Request to send
8	CTS, Clear to send
9	RI, Ring indicator

## LINE OUT



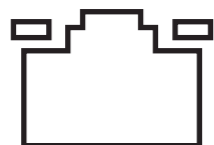
PIN	DESC
1	Left Channel
2	Right Channel
3	+Data
4	GND

## MIC



PIN	DESC
1	MIC_L
2	MIC_R
3	GND

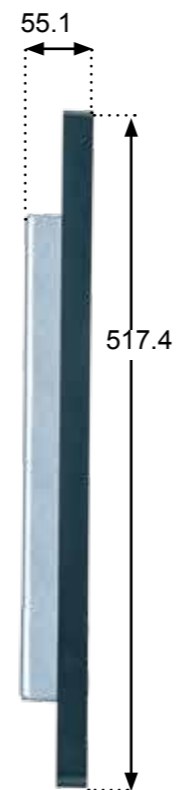
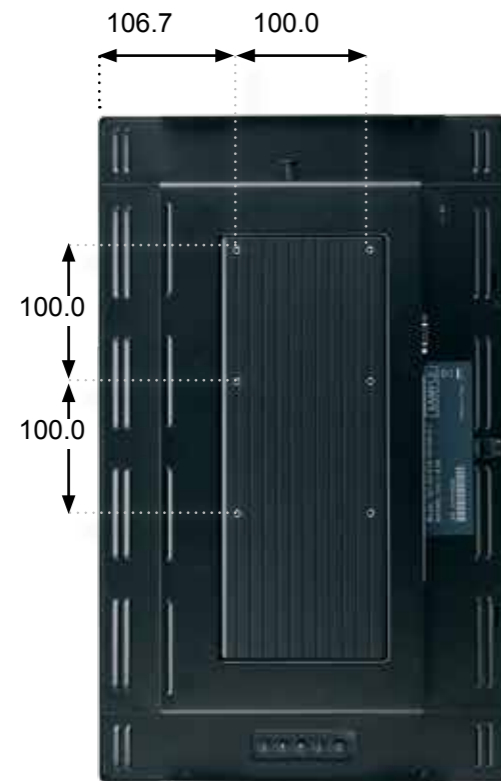
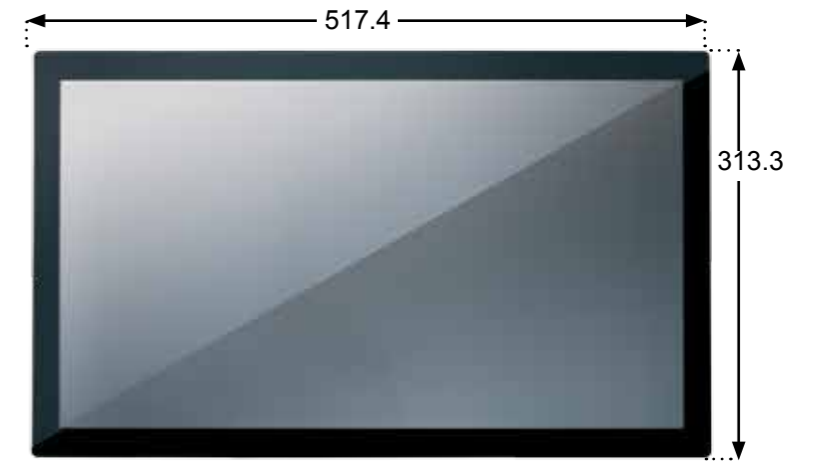
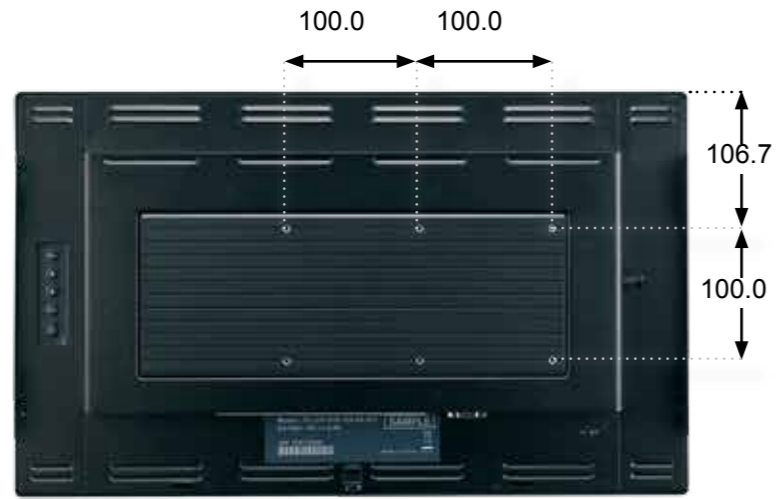
## LAN



PIN	DESC
1	TD+
2	TD-
3	RD+
6	RD-



# 1.7 Dimensions



# Chapter 2: How to Guides

## 2.1 How to set up Windows 7 Industrial Operating System



1 Collecting information

2 Installing Windows

1 Collecting information

2 Installing Windows

1 Collecting information

2 Installing Windows

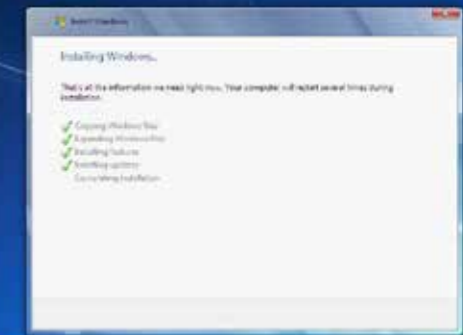
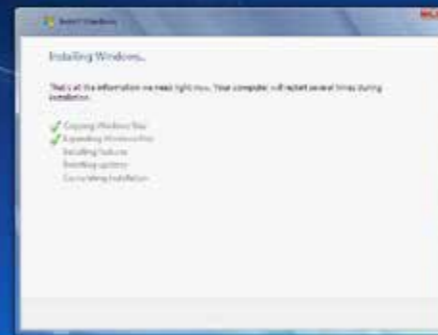
1. Select language, time and keyboard settings then click Next. This entire process will take roughly 30 minutes.

2. Click Install now

3. Read license terms, click the box "I acept the license terms" then click Next

4. If you are upgrading from a older version of Windows, choose Uppgrade. If this is a new OS installation, choose Custom.

5. Choose the disk to install Windows then click Next



1 Collecting information

2 Installing Windows

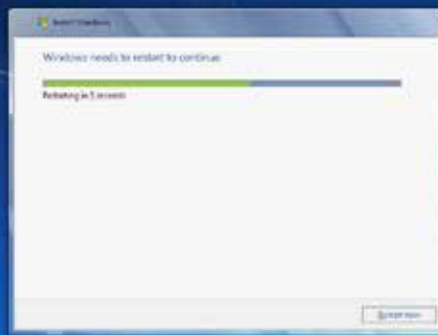
1 Collecting information

2 Installing Windows

1 Collecting information

2 Installing Windows

5. During the Windows installation process, the system will shut down and restart multiple times.



1 Collecting information

2 Installing Windows

1 Collecting information

2 Installing Windows

1 Collecting information

2 Installing Windows

6. When you see this screen, click Restart now

7. System will do an automatic system restart



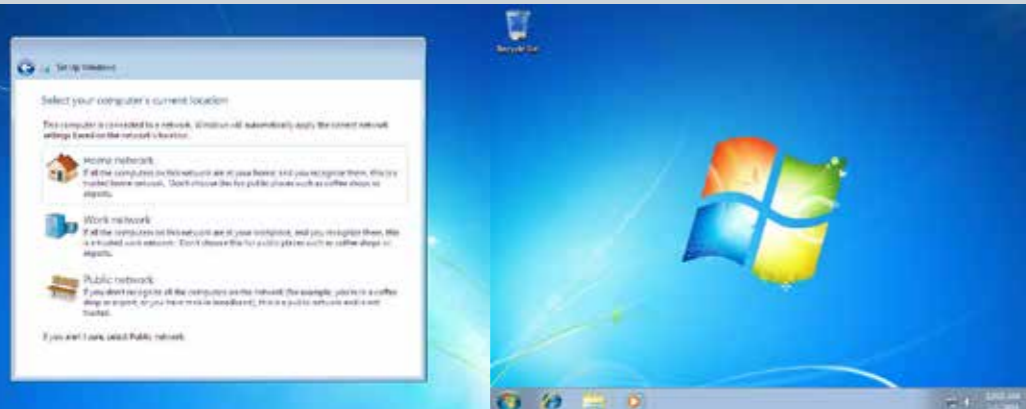
8. Create a user name and computer name then click Next

9. Create your password and hint (optional)

10. Type in your Windows product key then click Next

11. Choose any option depending on your needs. Find out more by choosing the blue underlined [Learn more about each option](#)

12. Choose the correct time zone and date then click Next



13. Choose your network type

14. Congratulations, Windows 7 operating system has been set up

## 2.2 How to set up System Drivers



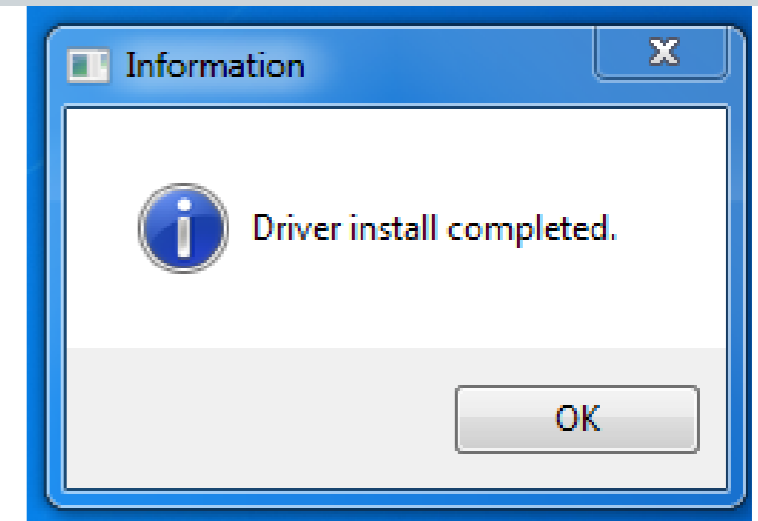
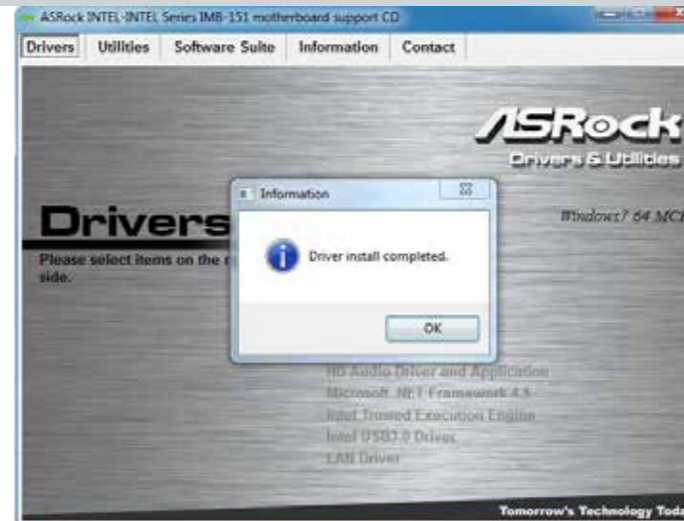
1. Choose the file folder for drivers and choose AsrSetup

2. Select install all then click OK

3. During the installation process, the system will automatically restart. Do not force shut down or run additional programs during this process.



Reference Images



4. If Adobe Reader was checked on Step 3, then at this point it will be installed.

5. Click OK. Congratulations the driver installation is complete

## 2.3 How to Install and Access Storage Device

BLUE: IF SYSTEM IS ALREADY ON AND YOU NEED TO MAINTAIN STORAGE DEVICE  
RED: NEW HDD INSTALL (START FROM BOTTOM RIGHT)



1. Shut down the system (left)

2. Unplug the power adaptor

3. Remove the two screws

4. Pull out your storage device holder

7. Start up the system by pressing the power icon (right)

6. Plug in the power adaptor

5. Screw in the two screws

4. Push in your storage device holder



5. Remove the 4 screw on the back side of the storage device



6. Remove the storage device



Complete

3. Turn the holder around and tighten the screws in the indicated area

2. Add the storage device on the holder

1. If storage device was not purchased through TES, the holder will be found in accessory box

## 2.4 How to Set Up Side Bracket



1. There are 4 locations where you can install the side bracket. The location in which you should choose to install the side bracket should be determined by the design of your final assembly. We suggest using the sides of the bracket (side is determined by if final assembly is portrait or landscape).



## 2.4 How to Use OSD Controls



1. Press the "Power" button to on/off computer system
2. Adjust the value of the adjustment items by pressing the "Up" or "Down" button.
3. Menu and Select no function

# Chapter 3: Appendix

## Troubleshooting

### Touch and LCD Panel Related

No image appears on screen.

Check that all the I/O and power connectors are correctly and well connected described in the “Installation” section. Make sure the pins of the connectors are not crooked or broken.

Partial Image or incorrectly displayed image.

Check to see if the resolution of your computer is higher than that of the LCD display. Reconfigure the resolution of your computer to make it less than or equal to 1920 x 1080.

Touch no function (for windows 7 only)

When P-CAP touch monitor turn the power on or off in the time. Please wait~15 seconds for the touch function to be normal.

### Other

COM ports are not functioning properly

Check if the I/O ports are enabled in the CMOS setup.

Check if there are any IRQ conflicts.

The M/B or I/O cable could be defective.

LAN Is Not Functioning Properly

Check if the LAN driver is installed properly.

Check if the RJ45 cable is properly connected.

The on-board LAN chip could be defective.

Cannot Detect SATA Storage HDD/SSD

Make sure storage device is well connected in the Sata Drive Bay.

HDD power cable is not connected properly to the main board or it could be defective.

Check CMOS setup, set SATA HDD to Auto Detect.

On-board SATA port could be defective.

Confirm HDD setup in BIOS is normal