Product Specifications

Customer	
Model Name	**NTWP238-2 V613**
Model Number	**NTWP238XX2XX-SIXXXXX-XXXX-613**

* X = A~Z, 0~9 (Depends on Options.)

Records of Revision			
Vision	**Modifying**	**Old Description**	**New Description**
v2512.1	**Preliminary Specification**		

Features

PSE BSMI RoHS CE ISO9001 FCC

★ 23.8 inch, 1920x1080 (FHD) Resolution
★ Wide Viewing Angle Technology , 178°/178°
★ Intel® 13th Generation Core i Series CPU
★ DDR4 8G RAM, Max to 32G
★ GbE LAN Port x2
★ 128G SSD, Max to 1T
★ Realtek Audio HAD Codec,
★ RS485 Port x1, RS232 Port x6
★ USB 3.0 x6
★ Narrow Bezel, True Flat Projected Capacitive Touch Screen
★ 7H Hardness Tempered Cover Glass
★ 10 points Multi-touch, Supports NEXTECH Dedicated Stylus
★ Metal Cabinet with Diverse Combine Options
★ Made in Taiwan, 3 Years Warranty
★ Optional High Brightness 1500nits，for Outdoor Environment
★ Optional Anti-Glare&UV/Antibacterial/Privacy Filter Surface Treatment

Desktop Stand

Wall Mounting

Open-frame Brackets

Panel Mount

System Specifications

CPU	**Intel® Core i U Series Processor**
Memory	**DDR4 SO-DIMM, Max. Capacity 32G**
Network	**2 * Intel® GbE LAN Chip (10/100/1000 Mbps, RJ45)**
Storage	**SATA3.0 7P Connector (With 1 * SATA Power Wafer)x1** **M.2 Key-M Slot (PCIe x4/ SATA, Default PCIE 4x, Support PCIe x4 NVMe, 2280) x1**
Sound Chip	**Realtek Audio HAD Codec**
Rear I/O	**HDMI x1, DP x1** **RJ45 LAN Ports x2** **USB 3.0 x6** **RS485 x1, RS232 x6** **Line-Out + MIC 2in1 3.5mm Jack x1**
Operating Temp.	**0~60℃**
Storage Temp.	**-20~75℃**
Power Input	**12VDC-in**

Display Specifications

Screen Diagonal	**23.8 inch**	Display Mode	**Normally Black**
Display Area	**527.04x296.46 mm**	Backlight Unit	**LED (white LED)**
Resolution	**1920x1080 (FHD)**	Viewing Angle (L/R, U/D)	**178°/178° (CR=10)**
Contrast Ratio	**1000:1**	Response Time	**14 msec.**
Display Ratio	**16:9**	Backlight Lifetime	**>50,000 Hours**
Support Colors	**16.7M Colors**	Operating Temp.	**0~50℃**
Pixel Pitch	**274.5x274.5 um**	Storage Temp.	**-20~60℃**

Display Options

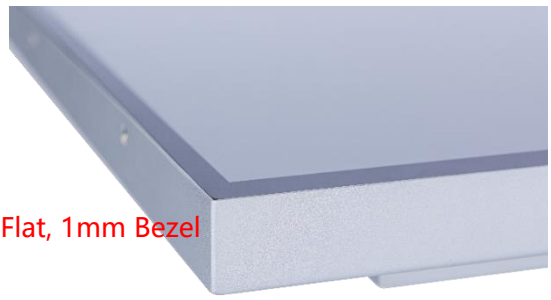
Brightness			
	Brightness	**Environment**	**Model Name**
Standard	**400nits**	**General**	**NTWP238NX2XX-SIXXXXX-XXXX-613**
Option 1	1000nits	Outdoor Environment	NTWP238AX2XX-SIXXXXX-XXFX-613
Option 2	1500nits	Sunlight Readable	NTWP238FX2XX-SIXXXXX-XXFX-613

Touch Options

Touch Screen		
	Description	**Model Name**
Standard	**Projected Capacitive Touch**	**NTWP238XP2XX-SIXXXXX-XXXX-613**
Option	Non-Touch	NTWP238X02XX-SIXXXXX-XXXX-613

Projected Capacitive Touch

Touch Technology	Projected Capacitive	Thickness of Cover Lens	2.0±0.2mm
Allowed Touch Points	10 points	Hardness of Cover Lens	7H
Transparency	≧87%	IK Ratings	IK07
Accuracy	99.00%		



* True Flat, 1mm Bezel

Surface Treatment		
	Description	**Model Name**
Standard	**(none)**	**NTWP238XX200-SIXXXXX-XXXX-613**
Option 1	Anti-Glare&UV Coating	NTWP238XX2GG-SIXXXXX-XXXX-613
Option 2	Antibacterial (AB Film)	NTWP238XX2AB-SIXXXXX-XXXX-613
Option 3	Anti-Spy (AS Film)	NTWP238XX2SF-SIXXXXX-XXXX-613

Passive Stylus Pen (Option)	
Technology	Passive High Sensitive Knitted Wire Mesh Fiber Tip
Size of tip	6mm
Magnetic Attachment	Yes

Magnetic Attachment

System Options

CPU		
	Item	**Model Name**
Standard	**Core i3-1315U**	**NTWP238XX2XX-SI31XXX-XXXX-613**
Option 1	Core i5-1335U	NTWP238XX2XX-SI51XXX-XXXX-613
Option 2	Core i7-1355U	NTWP238XX2XX-SI71XXX-XXXX-613

Memory		
	Item	**Model Name**
Standard	**DDR4 SO-DIMM 8G**	**NTWP238XX2XX-SIXX8XX-XXXX-613**
Option 1	DDR4 SO-DIMM 16G	NTWP238XX2XX-SIXXAXX-XXXX-613
Option 2	DDR4 SO-DIMM 32G	NTWP238XX2XX-SIXXBXX-XXXX-613
Option 3	DDR4 SO-DIMM 64G	NTWP238XX2XX-SIXXCXX-XXXX-613

Storage		
	Item	**Model Name**
Standard	**SSD 128G**	**NTWP238XX2XX-SIXXXS1-XXXX-613**
Option 1	SSD 256G	NTWP238XX2XX-SIXXXS2-XXXX-613
Option 2	SSD 512G	NTWP238XX2XX-SIXXXS3-XXXX-613
Option 3	SSD 1T	NTWP238XX2XX-SIXXXH1-XXXX-613
Option 4	SSD 128G + SATA HDD 1T	NTWP238XX2XX-SIXXXSH-XXXX-613

System Options (Continued)

Material of Cabinet		
	Description	**Model Name**
Standard	**SECC**	**NTWP238XX2XX-SIXXXXX-SXXX-613**
Option 1	Stainless Steel	NTWP238XX2XX-SIXXXXX-LXXX-613
Option 2	Aluminum	NTWP238XX2XX-SIXXXXX-AXXX-613

Color of Cabinet		
	Description	**Model Name**
Standard	**Silver**	**NTWP238XX2XX-SIXXXXX-XSXX-613**
Option 1	White	NTWP238XX2XX-SIXXXXX-XWXX-613
Option 2	Black	NTWP238XX2XX-SIXXXXX-XBXX-613
Options	Other Colors	NTWP238XX2XX-SIXXXXX-XXXX-613

* X = A~Z, 0~9 (Depends on Color)

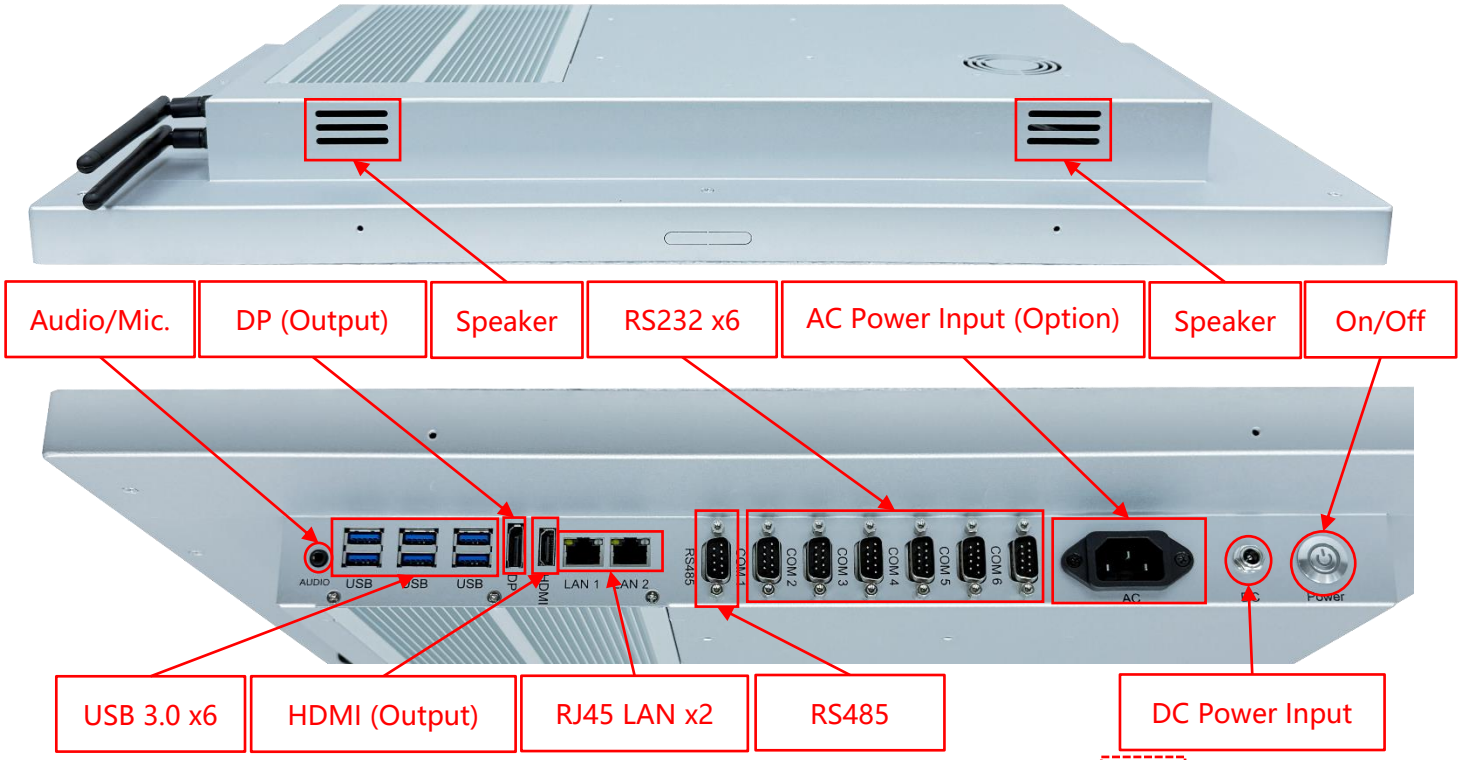
Cooling Fan		
	Description	**Model Name**
Standard	**Fanless**	**NTWP238XX2XX-SIXXXXX-XX0X-613**
Option	7 Blades/4000r.p.m/28.3dB	NTWP238XX2XX-SIXXXXX-XXFX-613

Power Input		
	Description	**Model Name**
Standard	**9~24DC-in, with AC/DC Adapter**	**NTWP238XX2XX-SIXXXXX-XXX2-613**
Option	100~240V AC, C14 AC Power Socket	NTWP238XX2XX-SIXXXXX-XXXA-613

DC-in

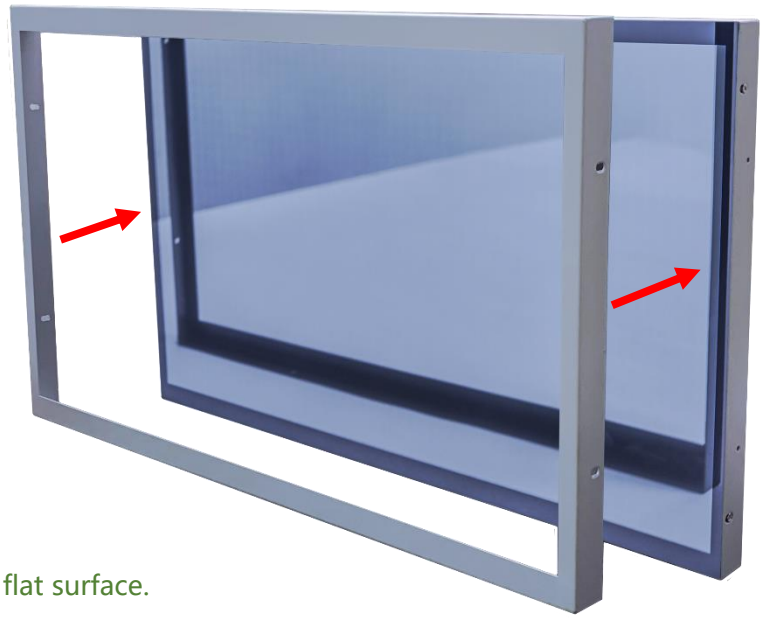
AC-in

Input /Output System



Input / Output	Connectors	Input / Output	Connectors
HDMI (Output)	**1**	Analog Audio Out/Mic. in	**1**
DP (Output)	**1**	Speakers	**2W x2**
USB 3.0	**6**	DC Power Input	**1**
RS485	**1**	AC Power Input	**Option**
RS232	**6**	Wi-Fi/Bluetooth & Antenna	**Option**
LAN (RJ45)	**2**		

Front Cover (Option)

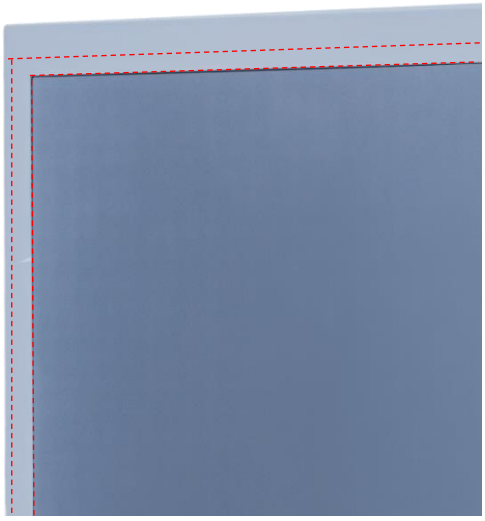


The standard **NTWP238** is true flat surface.

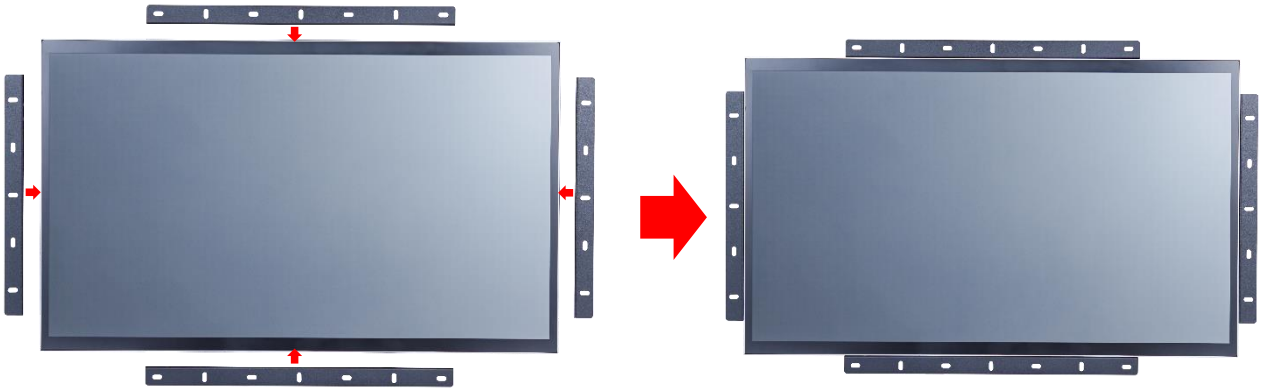
To protect the corners of the touch screen, the Front Cover can be added.

The watertight gasket can be added between the Front Cover and **NTWP238**.

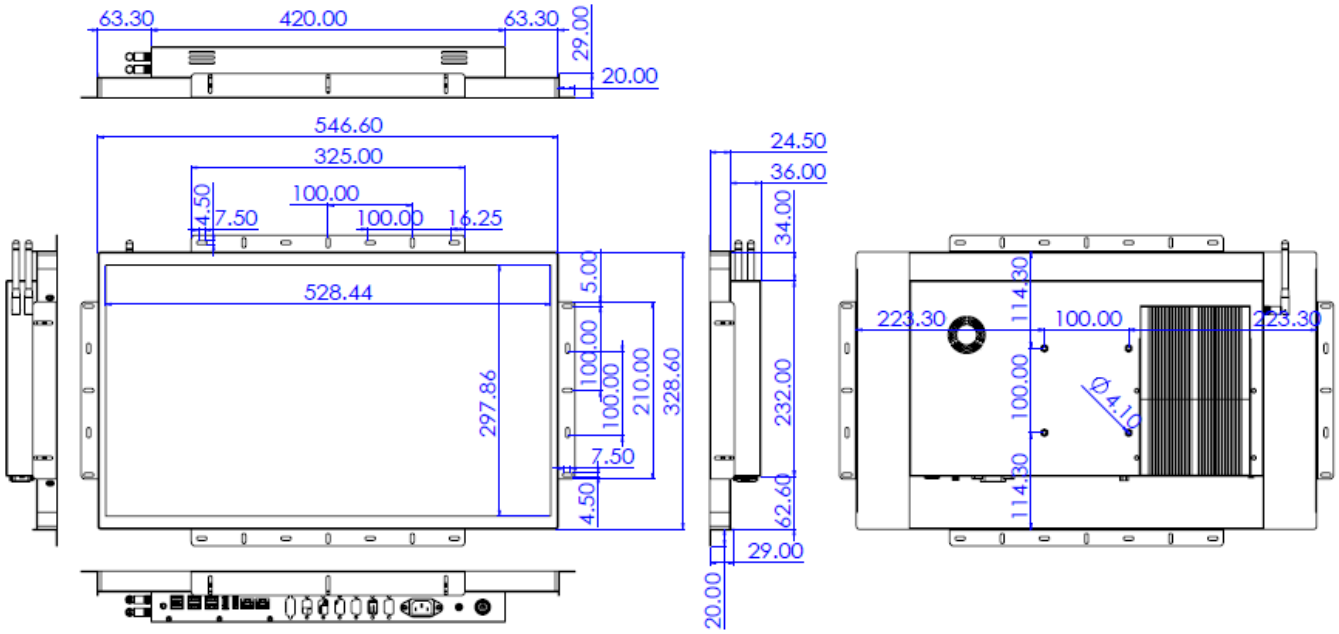
It complies **IP65** on front.



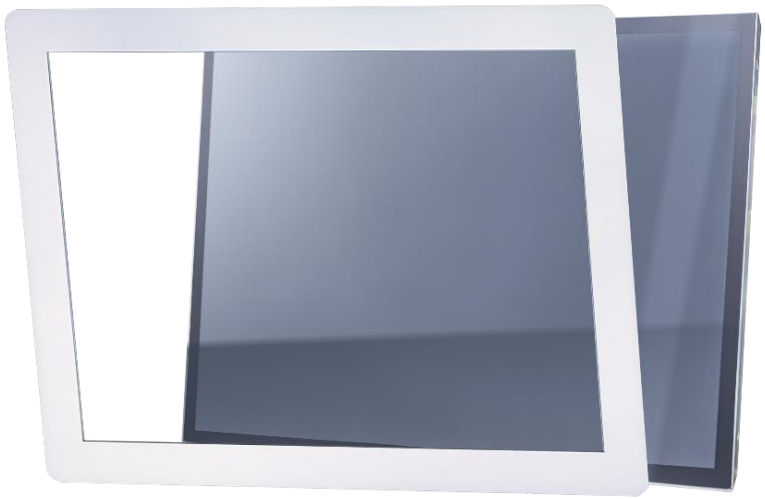
Open-frame Brackets (Option)



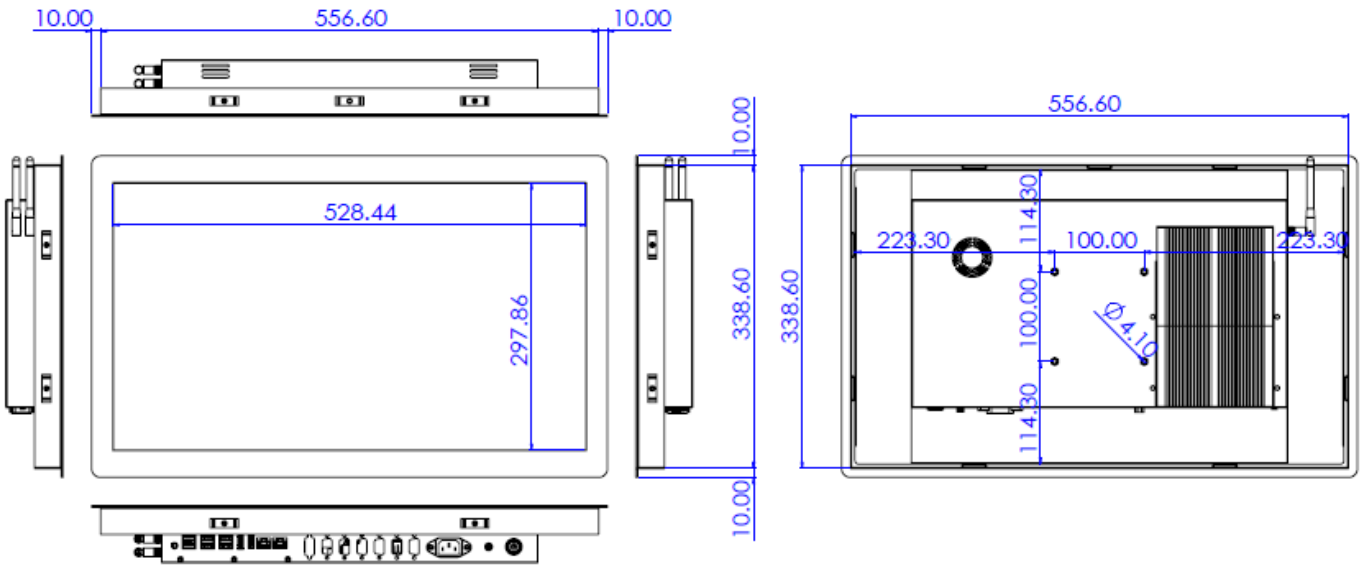
Dimension for Installing with Open-frame Brackets

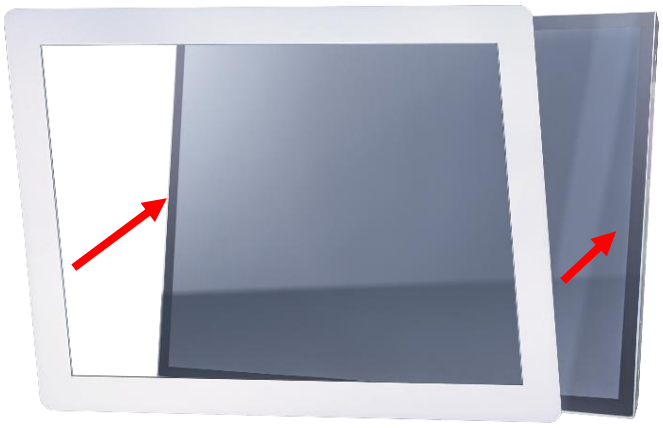


Panel Mount Kits (Option)

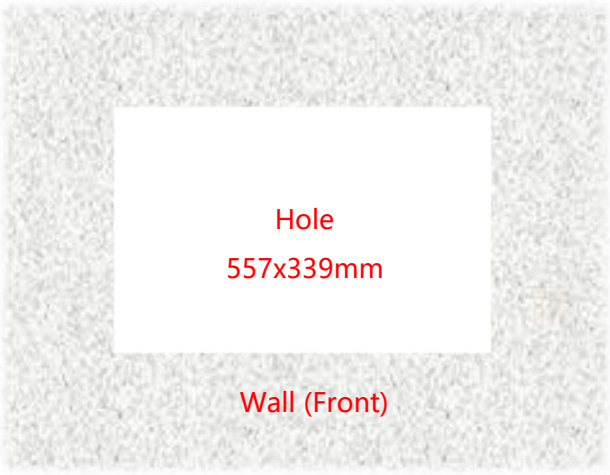


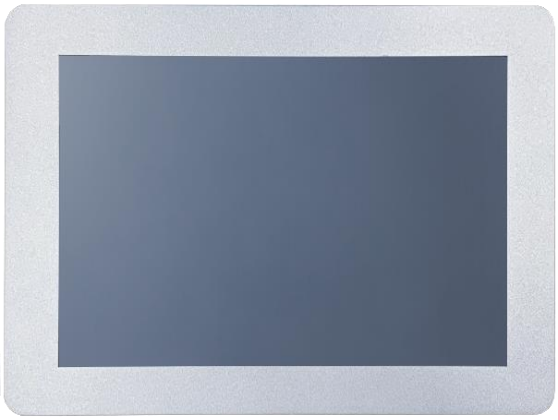
Dimension for Installing with Panel Mount Kits



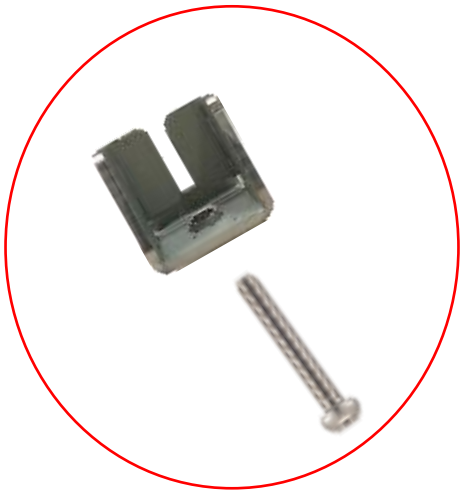


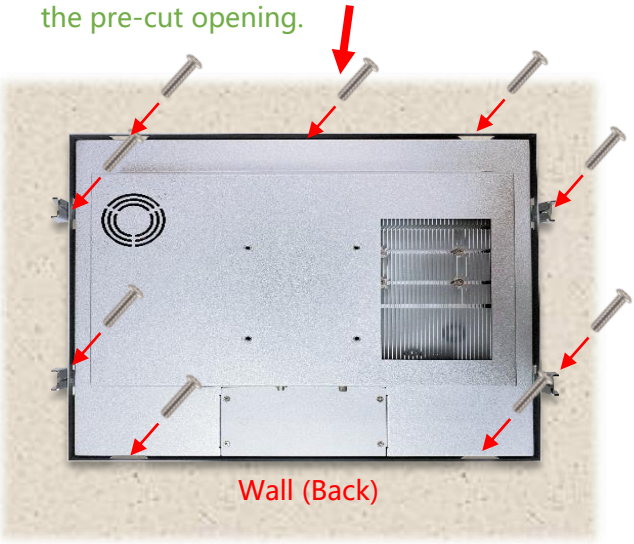
Step 1: Assemble the front module with the screen body. (This step is pre-assembled at the factory.)





Step 2: Insert the screen from the front into the pre-cut opening.

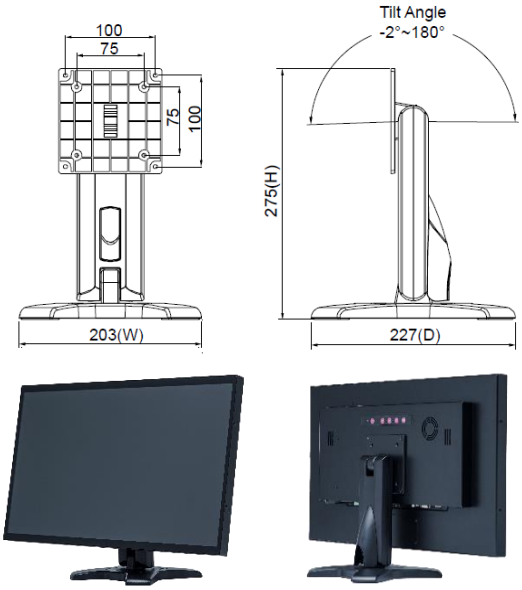




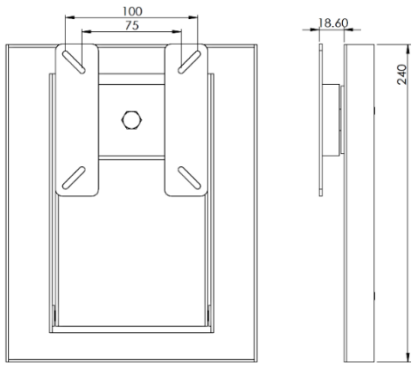
Step 3: Attach the clips from the back and secure with screws. (Up to 9 clips can be installed as needed or per positional limitations.)

Desktop Stand (Option)

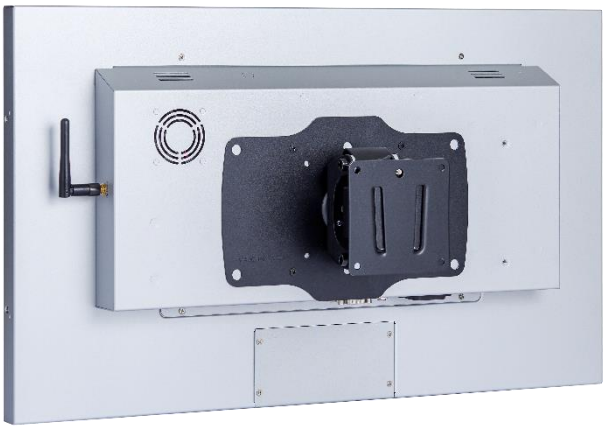
Item	B Stand	Part No.	DST-0B002/DST-1B002
Mounting Pattern	100x100 / 75x75 mm	Dimension (WxHxD)	203x275x227 mm
Material	Steel/Plastic/Aluminum	Net Weight	1.8 KG
Tilt (Hinge)	-2° ~+180°	Support Max. Weight	15 KG

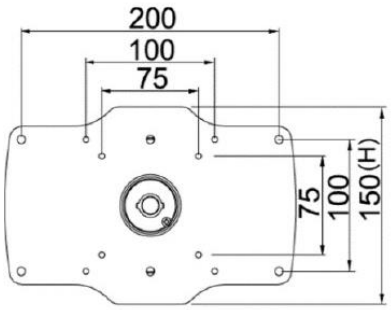


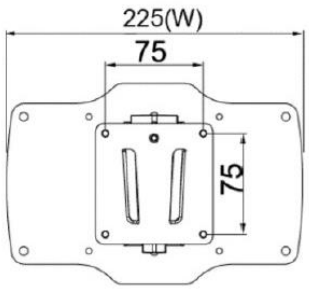
Item	Z Stand	Part No.	DST-0BZ01/DST-1BZ01
Mounting Pattern	100x100 / 75x75 mm	Dimension (WxHxD)	190x240x41.6
Material	SECC	Net Weight	2.6 KG
Tilt (Hinge)	±360°	Support Max. Weight	15 KG

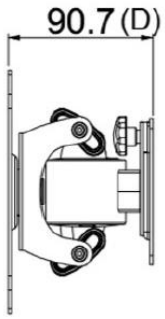


Wall Mount Bracket (Option)

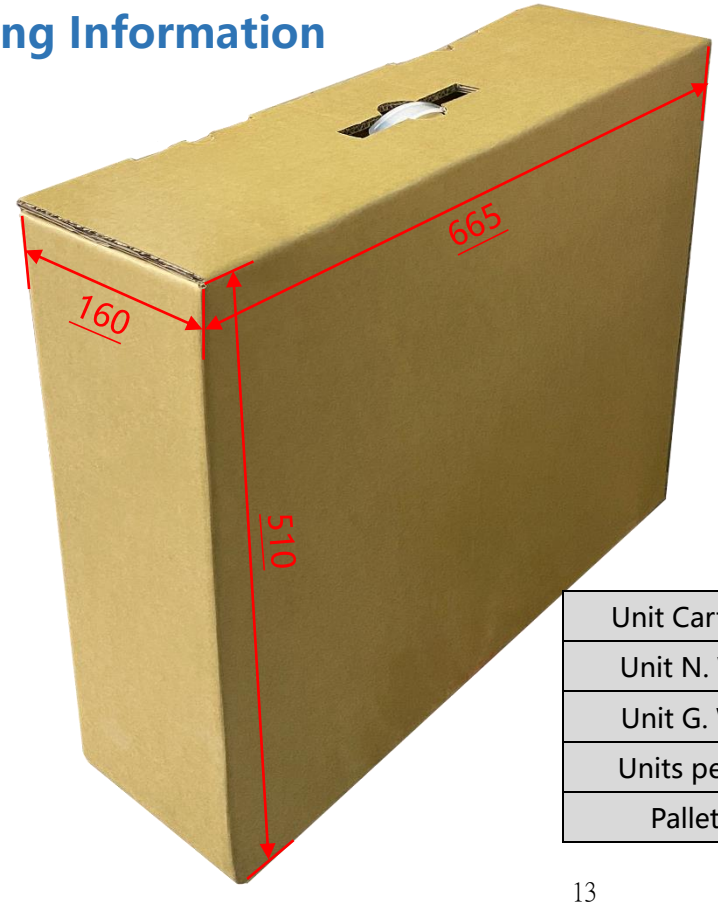








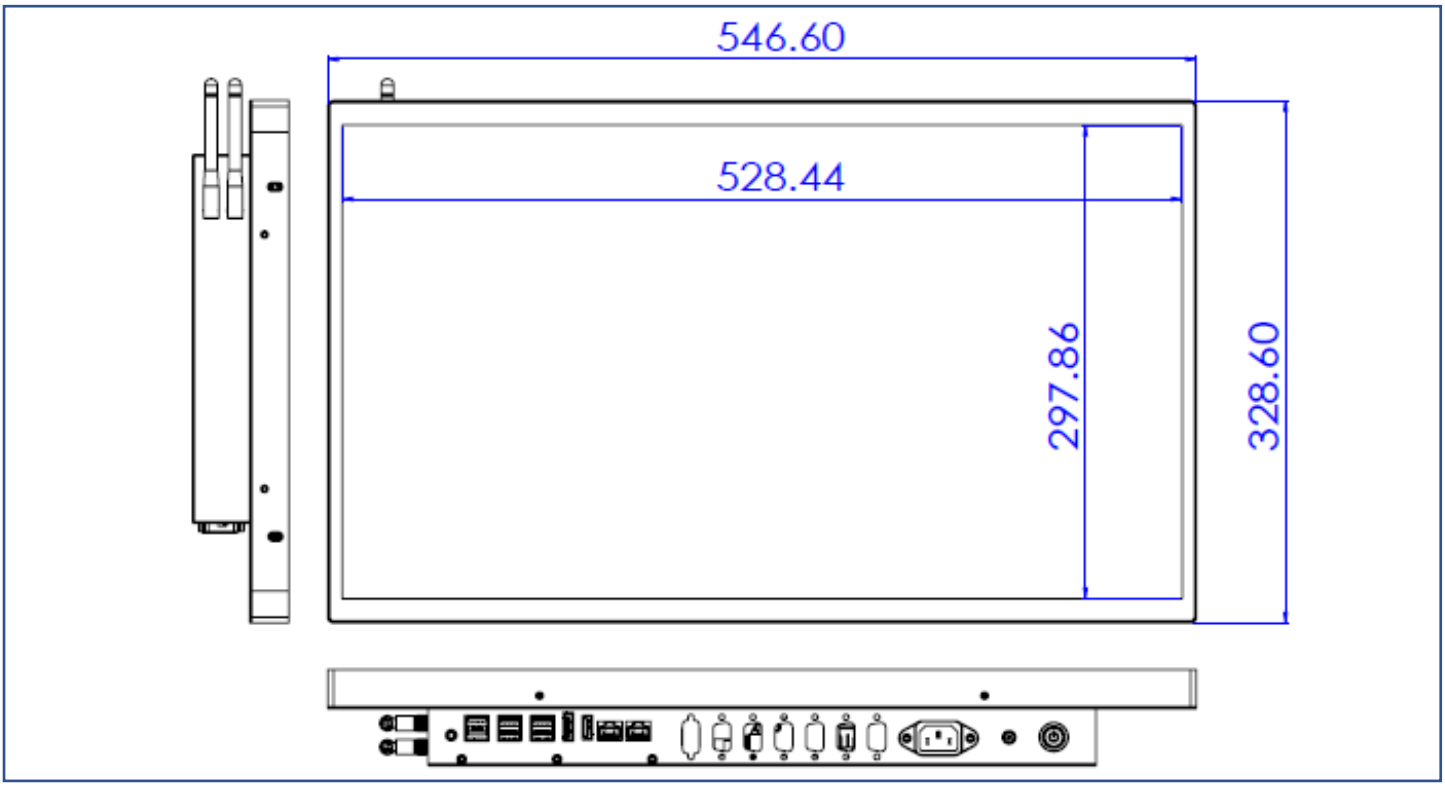
Packing Information

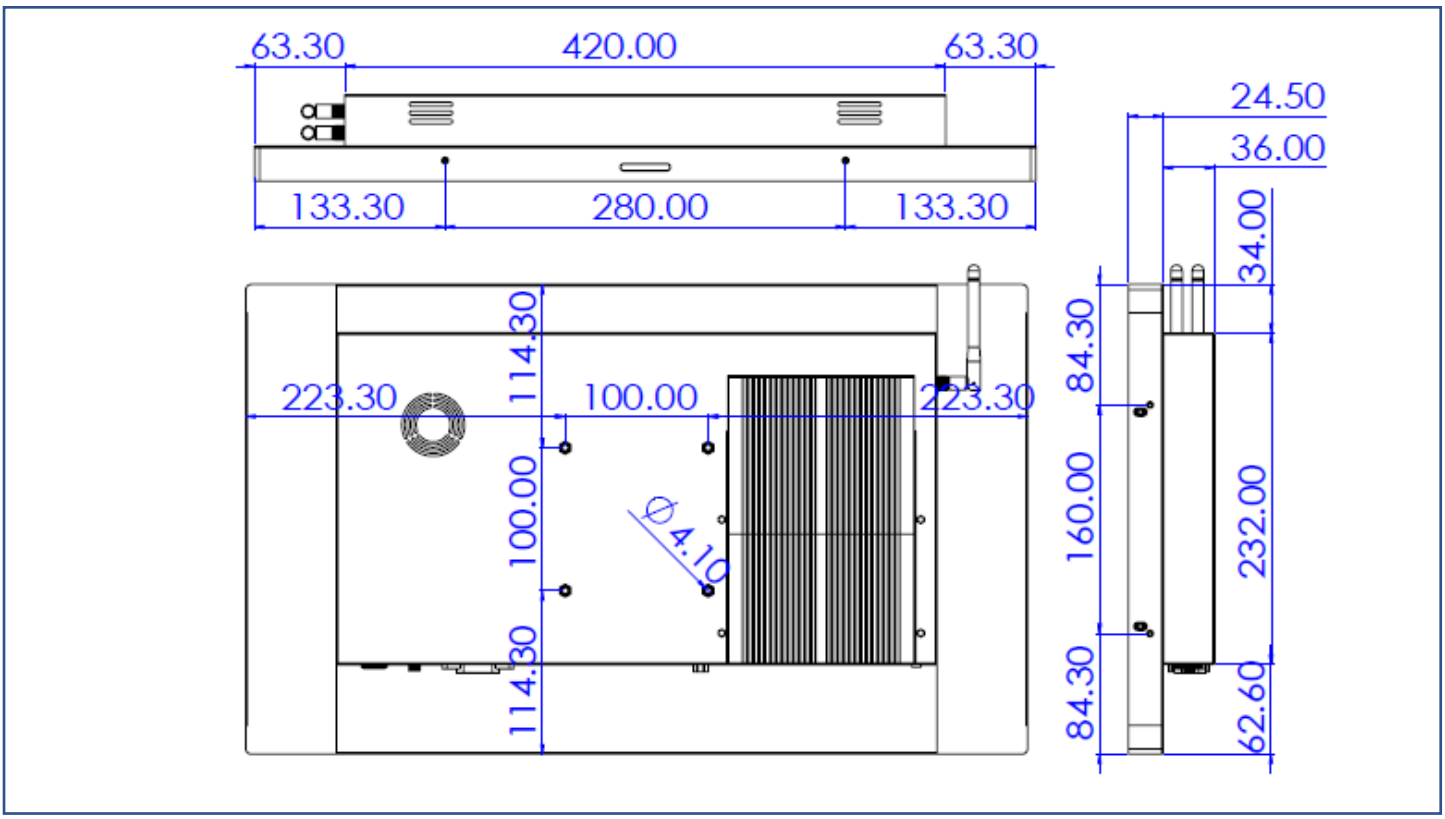


Unit Carton Size	**665x160x510 mm**
Unit N. Weight	**≦7.0 KG**
Unit G. Weight	**≦9.0 KG**
Units per Pallet	**30 units**
Pallet Size	**120x100x171 CM**

Physical Specifications

Dimension	**546.6x328.6x60.5(±2)mm**	Net Weight	**≦7.0 KG**
VESA Mounting	**100x100 mm**	Gross Weight	**≦9.0 KG**





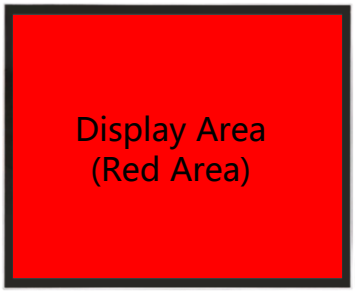
Cosmetic Inspection Standard

Display Area Allowance			
Defect description	**Defective Specifications**	**Allowance**	**Remarks**
Dot Defect (including dark dot, particles, bubbles, pits, dust, foreign matter)	D≦0.2mm	Ignored	D=Diameter
	0.2 < D≦0.7mm	N≦5	N=Quantity
	0.7 < D≦1mm	N≦3	
	D > 1mm	N≦0	
Linear Defect (including scratches, fluff, particles)	W≦0.15mm	Ignored	W=Width
	0.15 < W≦0.5mm, L≦15mm	N≦2	L=Length
	W > 0.5mm or L > 15mm	NG	

* Visual inspection distance: 60cm，90 degree (same for front/side/back)

Front Appearance Allowance (Including Coating)			
Defect description	**Defective Specifications**	**Allowance**	**Remarks**
Dot Defect (including particles, bubbles, pits...etc.)	D≦0.7mm	Ignored	D=Diameter
	0.7 < D≦1.5mm	N≦3	N=Quantity
	D > 1.5mm	N≦0	
Linear Defect (including scratches, fluff, particles)	W≦0.2mm, L≦15mm	Ignored	W=Width, L=Length
	0.2 < W≦0.7mm, L≦15mm	N≦1	
	W > 0.7mm or L > 15mm	NG	

Side / Back Appearance Allowance (Including Coating)			
Defect description	**Defective Specifications**	**Allowance**	**Remarks**
Dot Defect (including particles, bubbles, pits...etc.)	D≦1.5mm	Ignored	D=Diameter
	1.5 < D≦3mm	N≦8	N=Quantity
	D > 3mm	N≦2	
Linear Defect (including scratches, fluff, particles)	W≦0.8mm, L≦15mm	Ignored	W=Width, L=Length
	0.8 < W≦1.5mm, L≦15mm	N≦5	
	W > 1.5mm or L > 15mm	NG	



Front Appearance (Red Area)

Back Appearance