

# Industrial Stainless Steel Panel Mount IP65/NEMA4

NEMA4x/IP65 Stainless Steel Panel Mount with Glass (Front Bezel 3mm), 6.5" LCD monitor, 640 x 480, 400 nits VGA Input, Side OSD, including rear screw/VESA Mount Wide Temp. Operating Temp (-30~80C)

**MODEL: ESPM650WT**

**ESPM Series:** Front NEMA4/IP65 Industrial Stainless Steel Panel Mount Metal (3mm) Housing LCD Monitor (Optional Integrated Touchscreen)

## Features Highlights:



Stainless steel 3mm Panel Mount (Optional for Front AR Glass or Vandal Resistant glass)

NEMA4/ IP65 Front Anti Water proof and Dust Proof

Optional for Resistive/ Capacitive/ SAW/ IR/ Projective Capacitive Touch screen

Auto Video Signal ON / OFF  
Auto Always Power On

### Auto Power on and Video signal on/off:

The LCD is always on whenever there is a power; this functionality eliminates the need to manual turn on the LCD. Also, you can control the LCD backlight on/off by video signal. LCD backlight will shut down when no video signal, but LCD backlight will wake up when the video signal is back on.



For easy installation with Clamps mount

VESA Mounting Hole Pattern

Reliable built-in Power supply for 15" or above  
(Optional for 9-36V DC input)

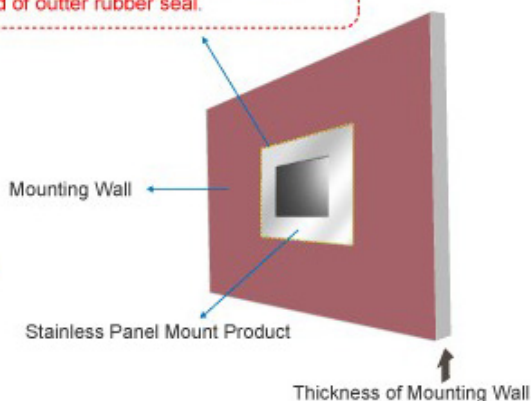


Standard VGA Input  
(Optional for DVI, HDMI, AV, BNC, AV looping and SDI)

Optional for RS232 Remote Control Protocol: Command Code to set system

Side OSD buttons can prevent unnecessary setting changes.

Stainless Steel Front Bezel is without to have outer rubber seal (O-ring). Please apply silicon to instead of outer rubber seal.



## Features:

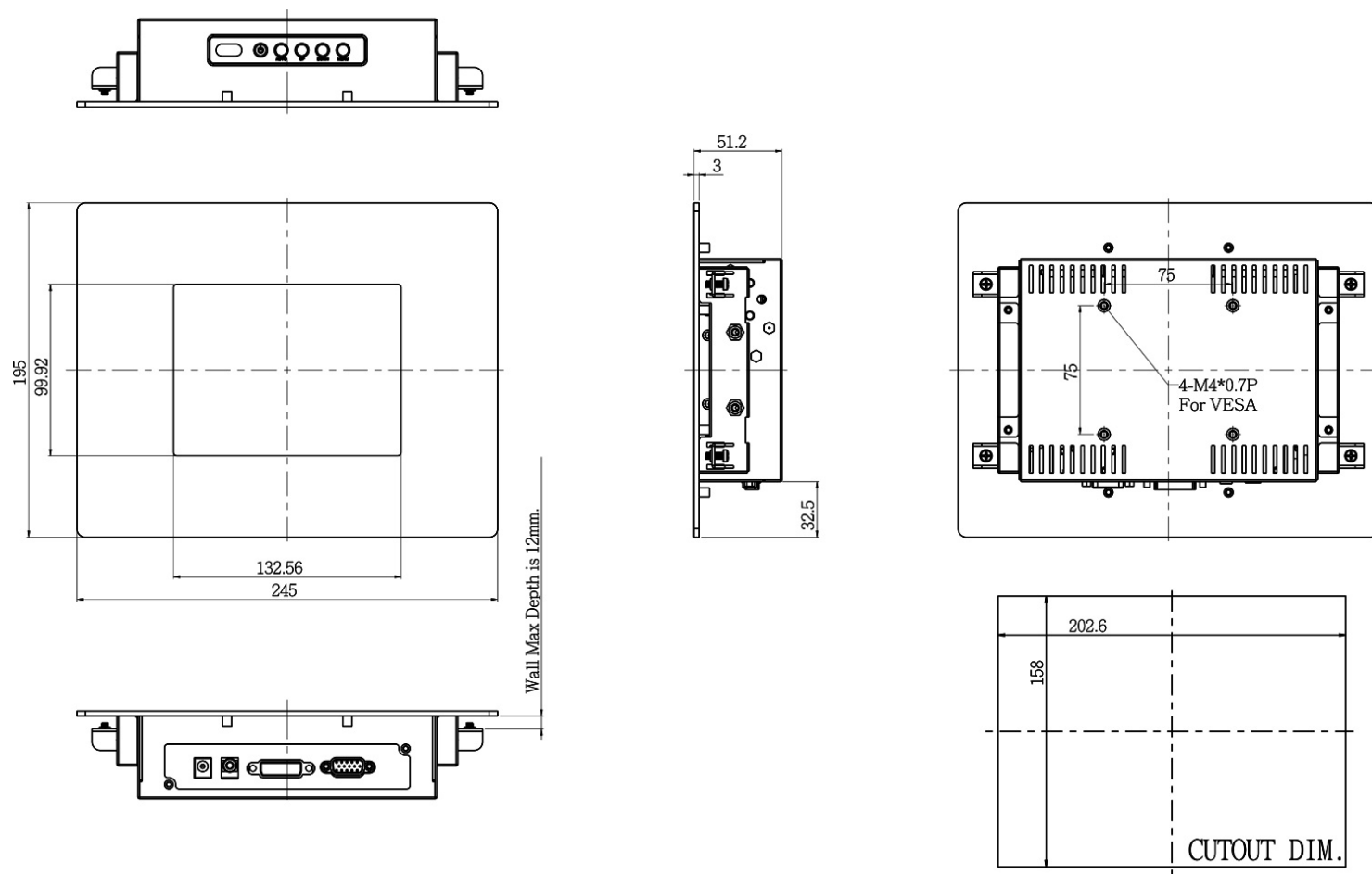
- Modularize mechanical design provides flexible product configuration and easy maintenance.
- IP65 Front side sealed for water-dust proof.
- Available with auto-brightness sensor offers application day and night.
- VGA connector with optional AV.SV.AV-Looping.
- Complete custom design/solution for OEM customers
- Optional build-in touch screen for interactive application

## Specifications

Panel	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating	
	Aspect Ratio / Size	4 : 3 / 6.5" viewable diagonal area	
	Active Area / Pixel Pitch	132.48(H) x 99.36(V) mm / 0.207(H) x 0.207(V) mm	
	Native Resolution / Colors	640(H) x 480(V) / 262 K	
	Brightness / Contrast	1000 cd/m2 (typ) / 600 : 1	
	Response Time	≤ 25 ms	
	Viewing Angle (typical)	H. 160o (- 80o ~ + 80o ) , V. 140o (- 70o ~ + 70o )	
	Light Source	LED backlight, Long life, 35,000 hrs (typ)	
Input Sources	PC System	Signal	Analog RGB (0.7/1.0 V <sub>p-p</sub> , 75 ohms)
		Sync	Separate Sync, Composite Sync, Sync On Green
		Frequency	F <sub>H</sub> : 30 - 82Khz , F <sub>V</sub> : 50 -75Hz
	Audio System	2Wspeakerx2	
Input Terminals	1 x VGA (15 Pin Female D-Sub), 1 x PC Audio (Stereo Headphone Jack), 1 x DC Power Plug		
Convenient Features	Auto Calibration , Back Light Adjustment, Plug&Play (VESA DDC/CI, DDC 2B)		
	OSD Multi-Languages , Wall Mount Ready (VESA Dimension - please refer to Drawing)		
Power	12V DC in		
Power Consumption	Operation / Power Saving	16 watt , < 1 watt (Support DPMS)	
Operating Condition	Temperature / Humidity	-30o C ~ 80o C (-22o F ~ 176o F) , 10% ~ 90% (no condensation)	
Storage Condition	Temperature / Humidity	-30o C ~ 80o C (-22o F ~ 176o F) , 10% ~ 90% (no condensation)	
Certification	FCC, CE		
Dimensions	Physical	Please refer to Drawing	
	Carton	W x H x D = TBD	
Weight	N.W. / G.W.	2.0 Kgs / 3.0 Kgs	
Container Loaded	20ft / 40ft / 40ft HQ	TBD (Sets , By pallet)	

Options	Touch	Video/TV	Enhanced Panel	Others
	Resistive touch	SV + AV	Panel with LED backlight	Digital Signage(Stand alone)
	Capacitive touch	SV + AV + AV_Looping	High brightness panel	Networking Digital Signage
	SAW touch	SV + AV + TV	Wide Temperature	Motion Sensor
	Infrared touch		Sunlight Readable	Light Sensor
	Protected glass			Auto-Dimming

# Mechanical Drawing:



## LCD Options



### LED Backlight Options

Introducing LED backlight options for monitors for energy efficiency and a brighter screen.



### TouchScreen Options

Our LCD has a wide selection option to choose which touchscreen technology suits for you.

	Four-Wire Resistive	Five-Wire Resistive	Pen Touch	Capacitive	Surface Wave(Saw)	Infrared Touch (Ir)
PRODUCT SIZE	1.7" - 24"	10.4" - 24"	15" - 19"	12" - 24"	10.4" - 30"	10.4" - 42"
TOUCH LIFE	1 - 2 million touches	30 - 35million touches	100 million touches	100 million touches	50 million touches	Long-term reliability
SCRATCH RESISTANCE	Hard Coated	Hard Coated	Hard Coated (SiO <sub>2</sub> )	Hard Coated (SiO <sub>2</sub> )	Glass Overlay Moh's hardness rating of 7	Glass Overlay Moh's hardness rating of 7
CONTAMINANT RESISTANCE	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers
INPUT METHOD	Finger, Gloved Hand, Stylus	Finger, Gloved Hand, Stylus	Stylus Pen	Finger	Finger, Gloved Hand, Soft pliable stylus	Finger, Gloved Hand, Stylus
CONTROLLER	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232



### VIDEO Input Options:

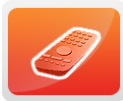
For Video inputs options:

DVI, DVI+HDMI, SVideo+AV, SVideo+AV+DVI, AV+Looping, DVI+AV+Looping, HD-SDI, BNC(PAL/NTSC)



### Optical Bonding Options

- Optical Bonding provides the best reduction of ambient light washout of any commercially available enhancement technology.
- Optical Bonding has a lower cost than most other competing technologies.
- Optical Bonding offers superior ruggedization, enhancing the display durability under vibration, shock and other environmental extremes.



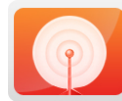
### RS-232 Remote Control Options

**Remote Control Protocol: Command Code to set system**



### 9-36V DC Input Options

iTech offers a selection of DC input from 9V to 36V



### Light Sensor and Motion Sensor Options

iTech LCD offers Light and Motion Sensor

### Privacy Filter

Front Glass Options:

- Anti Reflective AR Glass 3mm
- Anti Reflective AR Glass 6mm Vandal-Resistance
- Anti Reflective AR Glass 8mm Vandal-Resistance
- Anti Glare AG Glass 3mm