

# Model: ECH1210A-SIP-PCT

Rugged Completely Sealed IP66/NEMA4X Stainless Steel Chassis/Surface Mount, 12.1" LCD monitor, 800x600, 250 nits, without speaker with Projective Capacitive Touch (1-2mm) USB Controller

**ECHXXX-SIP Series:** Rugged Completely Sealed IP66/NEMA4X Stainless Steel Chassis/Surface Mount (Optional Integrated All-in-One PC Fanless and Touchscreen Solution)

## Features Highlights:



Water Proof Solution, Full IP/NEMA4 Rating front and back  
Stainless and Aluminum Housing Chassis Design

Glass Protective Glass at front

Optional High Brightness and Touch screen



- IP65 Water and Dust proof connection for a higher protection
- All Connectors are facing back with IP66 water proof connectors

# Stainless Steel Chassis LCD Monitor

## Photos:

### Model: ECH1700-SIP



## Features:

- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Available with auto-brightness sensor offers application in day and night
- Stainless Steel Enclosure
- Complete custom design/solution for OEM customers

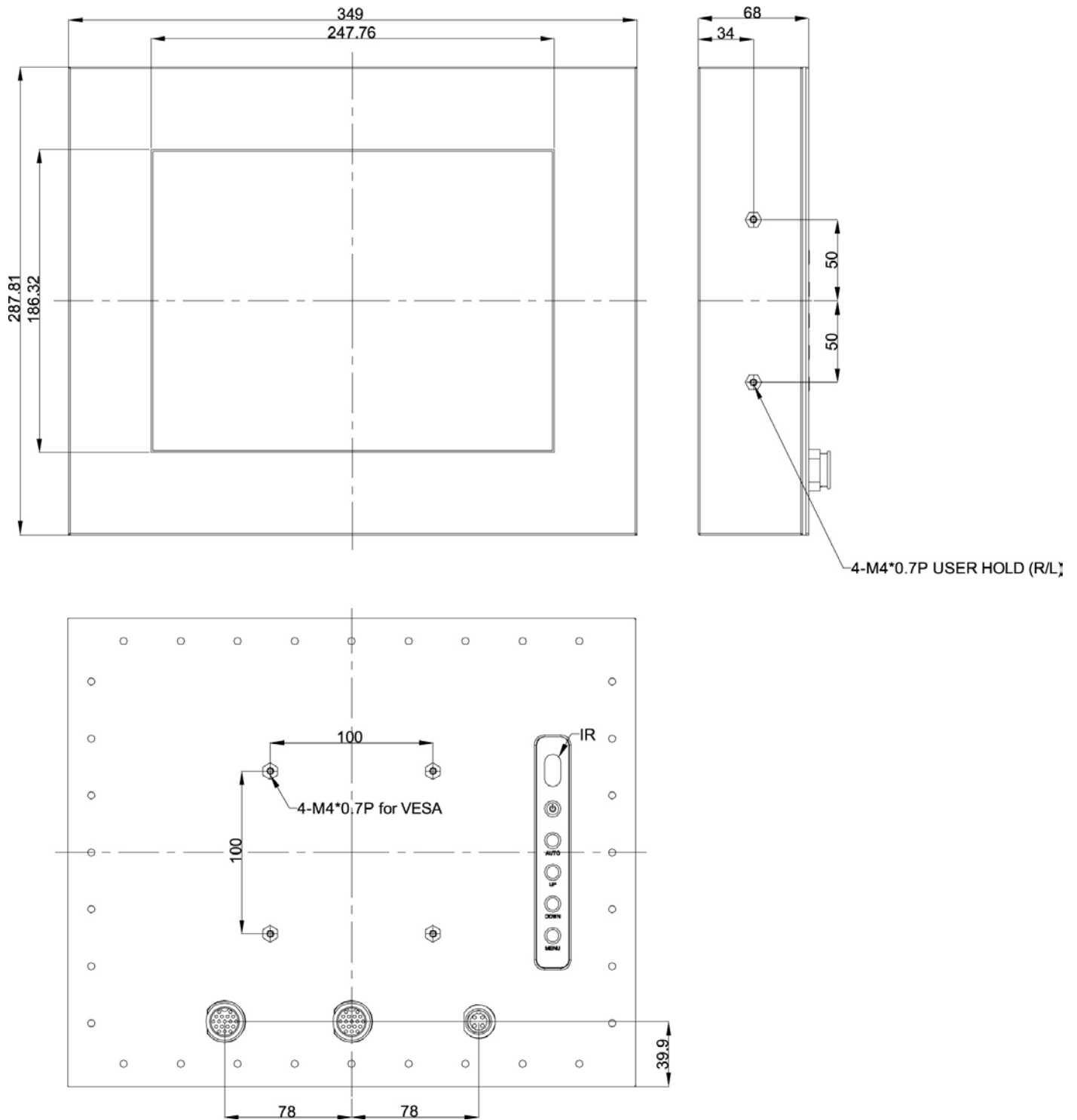
## Specification:

|                            |  |   |   |
|----------------------------|--|---|---|
| <b>Panel</b>               | Cell Type / Glass Surface  | TFT LCD / Black Anti-Glare, low reflection coating          |   |
|                            | Aspect Ratio / Size  | 4 : 3 / 12.1" viewable diagonal area                        |   |
|                            | Active Area / Pixel Pitch  | 246.0(H) x 184.5(V) mm / 0.3075(H) x 0.3075(V) mm           |   |
|                            | Native Resolution / Colors   | 800(H) x 600(V) / 262 K                                     |   |
|                            | Brightness / Contrast  | 250 cd/m <sup>2</sup> (typ) / 600 : 1                       |   |
|                            | Response Time  | ≤ 35 ms   |   |
|                            | Viewing Angle (typical)  | H. 140o (- 70o ~ + 70o) , V. 120o(- 60o ~ + 60o)            |   |
|                            | Light Source   | LED backlight, Long life, 35,000 hrs (typ)                  |   |
| <b>Input Sources</b>       | 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   | N / A   |   |
| <b>Input Terminals</b>     | 1 x VGA (15 Pin Female D-Sub) , 1 x PC Audio (Stereo Headphone Jack) , 1 x DC Power Plug |   |   |
| <b>Convenient Features</b> | Auto Calibration , Back Light Adjustment , Plug&Play (VESA DDC/CI, DDC 2B)               |   |   |
|                            | OSD Multi-Languages , Wall Mount Ready (VESA Dimension - please refer to Drawing)        |   |   |
| <b>Power</b>               | 12V DC in  |   |   |
| <b>Power Consumption</b>   | Operation / Power Saving   | 21.9 watt , < 2 watt (Support DPMS)                         |   |
| <b>Operating Condition</b> | Temperature / Humidity   | 0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)     |   |
| <b>Storage Condition</b>   | Temperature / Humidity   | - 20°C ~ 60°C (- 4°F ~ 140°F) , 10% ~ 90% (no condensation) |   |
| <b>Certification</b>       | FCC , CE   |   |   |
| <b>Dimensions</b>          | Physical   | Please refer to Drawing                                     |   |
|                            | Carton   | W x H x D = TBD   |   |
| <b>Weight</b>              | N.W. / G.W.  | 3.5 Kgs / 4.5 Kgs   |   |
| <b>Container Loaded</b>    | 20ft / 40ft / 40ft HQ  | TBD (Sets , By pallet)                                      |   |

|                |                  |                      |                          |                              |
|----------------|------------------|----------------------|--------------------------|------------------------------|
| <b>Options</b> | 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                 |

# Stainless Steel Chassis LCD Monitor

## 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 of touchscreen technology to choose which suits for you.

|                        | Four-Wire Resistive  | Five-Wire Resistive  | Capacitive   |
|------------------------|--|--|--|
| PRODUCT SIZE           | 1.7" - 24"   | 10.4" - 24"  | 12" - 24"  |
| TOUCH LIFE             | 1 - 2 million touches  | 30 - 35 million touches  | 100 million touches  |
| SCRATCH RESISTANCE     | Hard Coated  | Hard Coated  | Hard Coated (SiO <sub>2</sub> )  |
| 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 |
| INPUT METHOD           | Finger, Gloved Hand, Stylus  | Finger, Gloved Hand, Stylus  | Finger   |
| CONTROLLER             | 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.



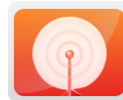
### RS-232 Remote Control Options

**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