

# CS-110H

10.4" TFT-LCD Sunlight Readable Display Module with Projected Capacitive Touch



## SUNLIGHT READABLE DISPLAY MODULE

| CS-100 Series |

### Overview

[CONTACT](#)

CS-110H is 10.4" TFT-LCD touch display module. It offers 1,500 nits ultra high brightness and 1024 x 768 (XGA) resolution, allowing viewers to see clear images even under any bright ambient light or direct sunlight environments. CS-110H is a rugged and reliable display solution featuring wide range operating temperature, a solid aluminum die-casting front bezel and true flat IP65 front panel protection. Supporting Convertible Display System (CDS) technology, CS-110H allows you to configure, upgrade and maintain your display system according to your need.

### Key Features

- 10.4" TFT-LCD with Projected Capacitive Touch
- Ultra High Brightness up to 1,500 nits
- Resolution up to 1024 x 768 (XGA)
- 70,000 hrs LED Backlight Life
- Wide Range Operating Temperature
- IP 65 Front Panel Protection
- Flat Rugged Aluminum Die-casting Bezel
- Convertible Display System (CDS) Technology Supported
- Safety: UL, cUL, CB, IEC, EN 62368-1

### Certifications

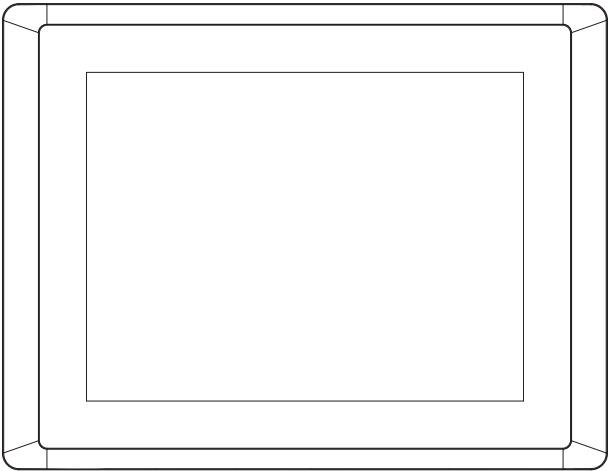


Specifications

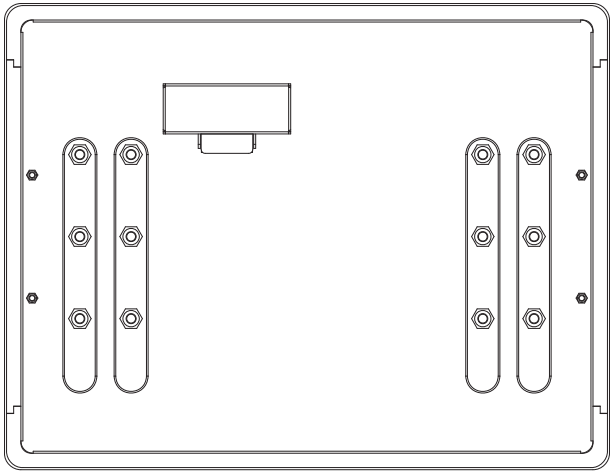
| Model Name              | CS-110H                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| LCD Size                | • 10.4" (4:3)                                                                                                                                                                                                                                                                                                                                                                                     |
| Max. Resolution         | • 1024 x 768 (XGA)                                                                                                                                                                                                                                                                                                                                                                                |
| Brightness (cd/m2)      | • 1500                                                                                                                                                                                                                                                                                                                                                                                            |
| Contrast Ratio          | • 1000 : 1                                                                                                                                                                                                                                                                                                                                                                                        |
| LCD Color               | • 16.2M                                                                                                                                                                                                                                                                                                                                                                                           |
| Pixel Pitch (mm)        | • 0.2055 (H) x 0.2055 (V)                                                                                                                                                                                                                                                                                                                                                                         |
| Viewing Angle (H-V)     | • 178 / 178                                                                                                                                                                                                                                                                                                                                                                                       |
| Backlight LED Life Time | • 70,000 hours (LED Backlight)                                                                                                                                                                                                                                                                                                                                                                    |
| Touch Screen            |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Touch Type              | • Projected Capacitive                                                                                                                                                                                                                                                                                                                                                                            |
| Wet Touch Tracking      | v                                                                                                                                                                                                                                                                                                                                                                                                 |
| Physical                |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dimension ( W x D x H ) | • 295 x 227.3 x 56.2 mm                                                                                                                                                                                                                                                                                                                                                                           |
| Weight Information      | • 2.24 kg                                                                                                                                                                                                                                                                                                                                                                                         |
| Mechanical Construction | • Flat Rugged Aluminum Die-casting Bezel                                                                                                                                                                                                                                                                                                                                                          |
| Power                   |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power Consumption       | • 15.3W (Typ.)                                                                                                                                                                                                                                                                                                                                                                                    |
| Environment             |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Front Panel Protection  | • IP 65 Compliant                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating Temperature   | • -30°C to 70°C (-22°F to 158°F )<br>(With Industrial Grade Peripherals; Ambient with air flow)                                                                                                                                                                                                                                                                                                   |
| Storage Temperature     | • -30°C to 80°C (-22°F to 176°F )                                                                                                                                                                                                                                                                                                                                                                 |
| Relative Humidity       | • 90% RH @ 40°C (Non-Condensing)                                                                                                                                                                                                                                                                                                                                                                  |
| EMC                     | • CE, UKCA, FCC, ICES-003 Class A                                                                                                                                                                                                                                                                                                                                                                 |
| EMI                     | • CISPR 32 Conducted & Radiated: Class A<br>• EN/BS EN 55032 Conducted & Radiated: Class A<br>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A<br>• EN/BS EN61000-3-3 Voltage fluctuations & flicker<br>• FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A                                                                                                                 |
| EMS                     | • EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br>• EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m<br>• EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV<br>• EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV<br>• EN/IEC 61000-4-6 CS: 3V<br>• EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m<br>• EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz |
| Safety                  | • UL, cUL, CB, IEC, EN 62368-1                                                                                                                                                                                                                                                                                                                                                                    |

External Layout

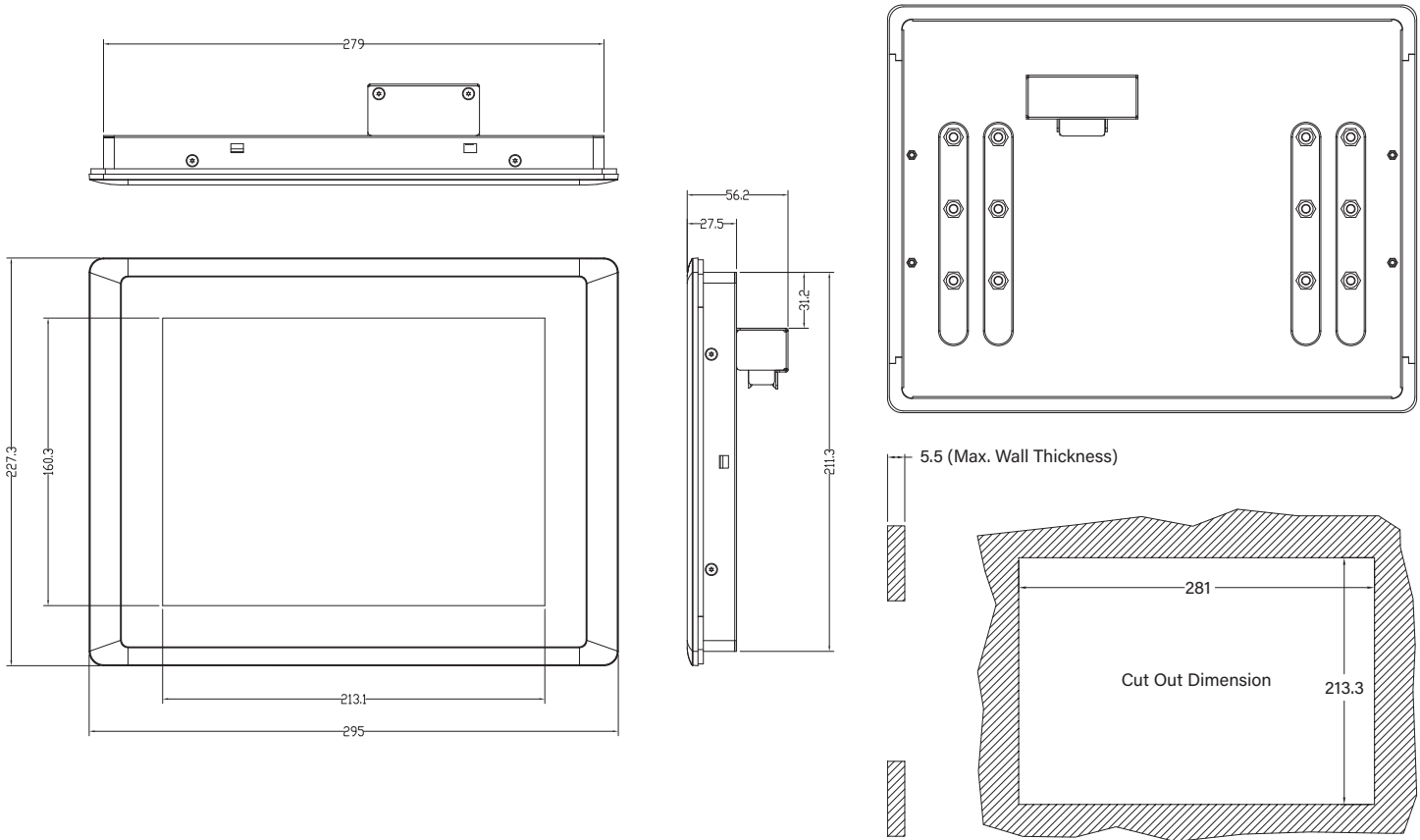
Front



Rear



Dimensions



## Ordering Information

### Available Models

| Model No.    | Description                                                                    |
|--------------|--------------------------------------------------------------------------------|
| CS-110HC-R12 | 10.4" TFT-LCD 1500 nits XGA 4:3 Display Module with Projected Capacitive Touch |

### Package Checklist

|                              |                          |
|------------------------------|--------------------------|
| • CS-110H Display Module x 1 | • Panel Mounting Kit x 1 |
|------------------------------|--------------------------|