

## HMI with 15" WVA Display



### Feature

- 15" 1024 x 768 Wide Viewing Angle LCD
- Quad-core Cortex-A17 CPU with High Performance dedicated 3D Processor
- Fan-less Cooling System
- Built-in 4GB Flash Memory and RTC
- SD Card Slot Supports SD/SDHC Cards
- Built-in Power Isolator
- NEMA4/IP66 Compliant Front Panel

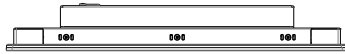
|                      |                                 |                                                                                                             |
|----------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Display</b>       | Display                         | 15" Wide Viewing Angle (WVA)                                                                                |
|                      | Resolution                      | 1024 x 768                                                                                                  |
|                      | Brightness (cd/m <sup>2</sup> ) | 350                                                                                                         |
|                      | Contrast Ratio                  | 2500:1                                                                                                      |
|                      | Backlight Type                  | LED                                                                                                         |
|                      | Backlight Life Time             | >70,000 hrs.                                                                                                |
|                      | Colors                          | 16.2M                                                                                                       |
|                      | LCD Viewing Angle (T/B/R/L)     | 88/88/88/88                                                                                                 |
|                      | Pixel Pitch (mm)                | 0.297(H) x 0.297(V)                                                                                         |
| <b>Touch Panel</b>   | Type                            | 4-wire Resistive Type                                                                                       |
|                      | Accuracy                        | Active Area Length(X)±2%, Width(Y)±2%                                                                       |
| <b>Memory</b>        | Flash                           | 4 GB                                                                                                        |
|                      | RAM                             | 1 GB                                                                                                        |
| <b>Processor</b>     |                                 | Quad-core RISC                                                                                              |
| <b>I/O Port</b>      | SD Card Slot                    | SD/SDHC                                                                                                     |
|                      | USB Host                        | USB 2.0 x 1                                                                                                 |
|                      | USB Client                      | N/A                                                                                                         |
|                      | Ethernet                        | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1                                                   |
|                      | COM Port                        | Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W<br>Con.B: COM1 RS-232 4W, COM3 RS-232 2W*<br>MPI is not supported. |
|                      | RS-485 Isolation                | N/A                                                                                                         |
|                      | CAN Bus                         | N/A                                                                                                         |
|                      | HDMI                            | N/A                                                                                                         |
|                      | Audio Output                    | Built-in Mono Speaker<br>Audio Line Out - 3.5 mm jack x 1                                                   |
| <b>RTC</b>           |                                 | Built-in                                                                                                    |
| <b>Power</b>         | Input Power                     | 24±20%VDC                                                                                                   |
|                      | Power Isolation                 | Built-in                                                                                                    |
|                      | Power Consumption               | 1.3A@24VDC                                                                                                  |
|                      | Voltage Resistance              | 500VAC (1 min.)                                                                                             |
|                      | Isolation Resistance            | Exceed 50MΩ @ 500VDC                                                                                        |
| <b>Specification</b> | PCB Coating                     | Yes                                                                                                         |
|                      | Enclosure                       | Aluminum                                                                                                    |
|                      | Dimensions WxHxD                | 366 x 293 x 48.2 mm                                                                                         |
|                      | Panel Cutout                    | 352 x 279 mm                                                                                                |
|                      | Weight                          | Approx. 2.74 kg                                                                                             |
|                      | Mount                           | Panel mount, VESA mount 75 x 75 mm                                                                          |
| <b>Environment</b>   | Protection Structure            | UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel                                           |
|                      | Storage Temperature             | -20° ~ 60°C (-4° ~ 140°F)                                                                                   |
|                      | Operating Temperature           | 0° ~ 50°C (32° ~ 122°F)                                                                                     |
|                      | Relative Humidity               | 10% ~ 90% (non-condensing)                                                                                  |
|                      | Vibration Endurance             | 10 to 25Hz (X, Y, Z direction 2G 30 minutes)                                                                |
| <b>Certificate</b>   | CE                              | CE marked                                                                                                   |
|                      | UL                              | cULus Listed                                                                                                |
| <b>Software</b>      | EasyBuilder Pro                 | V6.05.02 or later versions                                                                                  |
|                      | Weincloud                       | EasyAccess 2.0 (Optional), Dashboard* (Optional)                                                            |
|                      | CODESYS®                        | Optional                                                                                                    |

\* Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

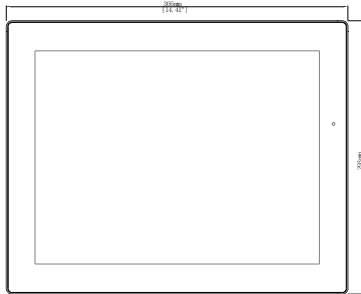
\* Dashboard requires EasyBuilder Pro V6.06.01 or later versions.

\* CODESYS® is a trademark of 3S-Smart Software Solutions GmbH.

## Dimensions



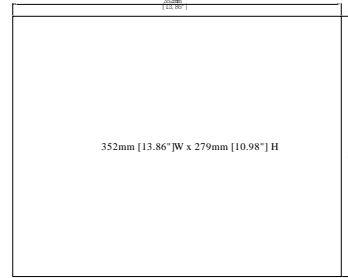
Top View



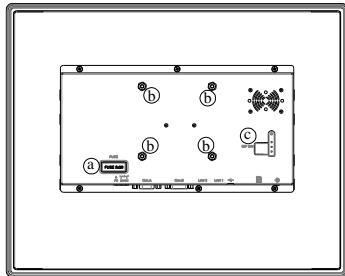
Front View



Side View



Cutout Dimensions



Rear View



Bottom View

|          |                                            |          |               |
|----------|--------------------------------------------|----------|---------------|
| <b>a</b> | Fuse                                       | <b>g</b> | LAN 2         |
| <b>b</b> | VESA 75mm Screw Holes                      | <b>h</b> | LAN 1         |
| <b>c</b> | DIP SW                                     | <b>i</b> | USB Host port |
| <b>d</b> | Power Connector                            | <b>j</b> | SD Card Slot  |
| <b>e</b> | COM1 RS-485 2W/4W, COM3 RS-485 2W, (Con.A) | <b>k</b> | Line Out      |
| <b>f</b> | COM1 RS-232 4W, COM3 RS-232 2W (Con.B)     |          |               |

### Pin Assignment:

#### Con. B: COM1 / COM3 [RS232] 9 Pin, Male, D-sub

| PIN# | COM1 [RS232]4W | COM3 [RS232]2W |
|------|----------------|----------------|
| 1    |                |                |
| 2    | RxD            |                |
| 3    | TxD            |                |
| 4    |                |                |
| 5    | GND            |                |
| 6    |                |                |
| 7    | RTS            | TxD            |
| 8    | CTS            | RxD            |
| 9    | GND            |                |

### Ordering Information

**cMT2158X:**  
 15" 1024 x 768 WVA LCD HMI, 4GB flash memory, 1GB RAM on board

Optional:

- RZACEA020:** EasyAccess 2.0 Activation Card
- RZOCDS000:** CODESYS activation card & license sticker

#### Con. A: COM1 / COM3 [RS485] 9 Pin, Female, D-sub

| PIN# | COM1 [RS485]2W | COM1 [RS485]4W | COM3 [RS485]2W |
|------|----------------|----------------|----------------|
| 1    | Data-          | Rx-            |                |
| 2    | Data+          | Rx+            |                |
| 3    |                | Tx-            |                |
| 4    |                | Tx+            |                |
| 5    | GND            |                |                |
| 6    |                |                | Data-          |
| 7    |                |                |                |
| 8    |                |                |                |
| 9    |                |                | Data+          |