



### Features

- 7" 800 x 480 TFT LCD, LED Backlight
- Fan-less Cooling System
- COM2 and COM3 RS-485 support MPI 187.5K, please use one at one time
- PCB coating process ensures high reliability to resist from corrosion in harsh environment
- Built-in Power Isolation
- NEMA4 / IP65 Compliant Front Panel

|                      |                                 |   |
|----------------------|---------------------------------|---|
| <b>Display</b>       | Display                         | 7" TFT  |
|                      | Resolution                      | 800 x 480   |
|                      | Brightness (cd/m <sup>2</sup> ) | 350   |
|                      | Contrast Ratio                  | 500:1   |
|                      | Backlight Type                  | LED   |
|                      | Backlight Life Time             | >30,000 hrs.  |
|                      | Colors                          | 16M   |
| <b>Touch Panel</b>   | Type                            | 4-wire Resistive Type                                 |
|                      | Accuracy                        | Active Area Length(X)±2%, Width(Y)±2%                 |
| <b>Memory</b>        | Flash                           | 128 MB  |
|                      | RAM                             | 128 MB  |
| <b>Processor</b>     |                                 | 32 bits RISC Cortex-A8 600MHz                         |
| <b>I/O Port</b>      | SD Card Slot                    | N/A   |
|                      | USB Host                        | USB 2.0 x 1   |
|                      | USB Client                      | N/A   |
|                      | Ethernet                        | 10/100 Base-T x 1                                     |
|                      | COM Port                        | COM1: RS-232<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W |
|                      | RS-485 Dual Isolation           | N/A   |
|                      | CAN Bus                         | N/A   |
|                      | HDMI                            | N/A   |
|                      | Audio Output                    | N/A   |
|                      | Video Input                     | N/A   |
| <b>RTC</b>           |                                 | Built-in  |
| <b>Power</b>         | Input Power                     | 24±20%VDC   |
|                      | Power Isolation                 | Built-in  |
|                      | Power Consumption               | 350mA@24VDC   |
|                      | Voltage Resistance              | 500VAC (1 min.)                                       |
|                      | Isolation Resistance            | Exceed 50MΩ at 500VDC                                 |
|                      | Vibration Endurance             | 10 to 25Hz (X, Y, Z direction 2G 30 minutes)          |
| <b>Specification</b> | PCB Coating                     | Yes   |
|                      | Enclosure                       | Plastic   |
|                      | Dimensions WxHxD                | 200.3 x 146.3 x 34 mm                                 |

|                    |                       |  |
|--------------------|-----------------------|--|
|                    | Panel Cutout          | 192 x 138 mm                               |
|                    | Weight                | Approx. 0.6 kg                             |
|                    | Mount                 | Panel mount                                |
| <b>Environment</b> | Protection Structure  | NEMA4 / IP65 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)                 |
| <b>Certificate</b> | CE                    | CE marked                                  |
| <b>Software</b>    |                       | EasyBuilder Pro V4.10.04 or later versions |

## Dimensions

**Top View**  
200.3 mm [7.89"]

**Front View**  
146.3 mm [5.76"]

**Side View**  
-7.4 mm [0.29"]  
-22.5 mm [0.89"]  
-5.1 mm [0.20"]

**Cutout Dimensions**  
192 mm [7.56"]  
138 mm [5.43"]  
MT8071iE:  
192mm [7.559"] W x 138mm [5.433"] H

**Rear View**  
189.6 mm [7.46"]  
135.6 mm [5.34"]

**Bottom View**  
34 mm [1.34"]

|           |                                   |
|-----------|-----------------------------------|
| <b>a.</b> | DIP SW                            |
| <b>b.</b> | Fuse                              |
| <b>c.</b> | Power Connector                   |
| <b>d.</b> | COM2 RS-485 2W/4W, COM3 RS-485 2W |
| <b>e.</b> | USB Host                          |
| <b>f.</b> | COM1 RS-232                       |
| <b>g.</b> | Ethernet                          |

### Ordering Information

**MT8071iE1:**  
7" 800 x 480 TFT LCD HMI, Built-in 128 MB flash memory / 128 MB DDR2 RAM on board

**Pin Assignment:**

**COM1 [RS232] 9 Pin, Male, D-sub**

| PIN# | Symbol   | COM1 [RS232]         |
|------|----------|----------------------|
| 1    | Not used |                      |
| 2    | RxD      | Received Data        |
| 3    | TxD      | Transmitted Data     |
| 4    | Not used |                      |
| 5    | GND      | Ground               |
| 6    | Not used |                      |
| 7    | RTS      | Ready to send output |
| 8    | CTS      | Clear to send input  |
| 9    | Not used |                      |

**COM2 / COM3 [RS485] 9 Pin, Female, D-sub**

| PIN # | Symbol   | Com2 [RS485]2w | Com2 [RS485]4w | Com3 [RS485] |
|-------|----------|----------------|----------------|--------------|
| 1     | Rx-      | Data-          | Rx-            |              |
| 2     | Rx+      | Data+          | Rx+            |              |
| 3     | Tx-      |                | Tx-            |              |
| 4     | Tx+      |                | Tx+            |              |
| 5     | GND      | Ground         |                |              |
| 6     | Data-    |                |                | Data-        |
| 7     | Not used |                |                |              |
| 8     | Not used |                |                |              |
| 9     | Data+    |                |                | Data+        |

Contact: WEINTEK LABS., INC. TEL: +886-2-22286770 Web: [www.weintek.com](http://www.weintek.com)

MT8071iE1\_DataSheet\_ENG\_20150123