



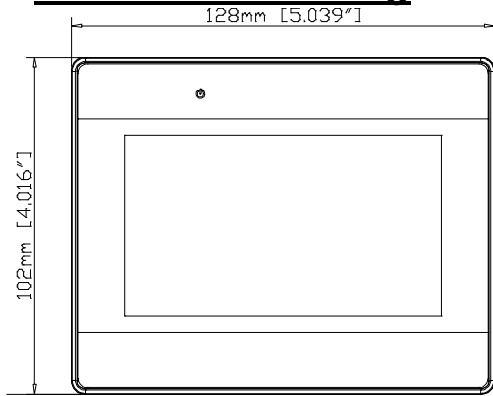
## HMI with 4.3" TFT Display

### ◆ Features

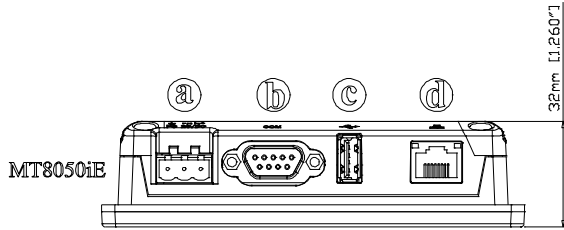
- 4.3" 480 x 272 TFT LCD, LED Backlight
- Slim design
- Fan-less Cooling System
- COM1 and COM3 RS-485 2W support MPI 187.5K, please use one at one time
- PCB coating process ensures high reliability to resist from corrosive in harsh environment
- Built-in Power Isolator
- NEMA4 / IP65 Compliant Front Panel

|                      |                                 |   |
|----------------------|---------------------------------|---|
| <b>Display</b>       | Display                         | 4.3" TFT  |
|                      | Resolution                      | 480 x 272   |
|                      | Brightness (cd/m <sup>2</sup> ) | 500   |
|                      | 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/RS-485 2W/4W, 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               | 300mA@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                | 128 x 102 x 32 mm   |
|                      | Panel Cutout                    | 119 x 93 mm   |
|                      | Weight                          | Approx. 0.25 kg   |
|                      | Mount                           | Panel mount   |
| <b>Environment</b>   | Protection Structure            | UL Type 4X (indoor use only) / 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   |
|                      | UL                              | cULus Listed  |
| <b>Software</b>      |                                 | EasyBuilder Pro V4.00.01 or later versions                        |

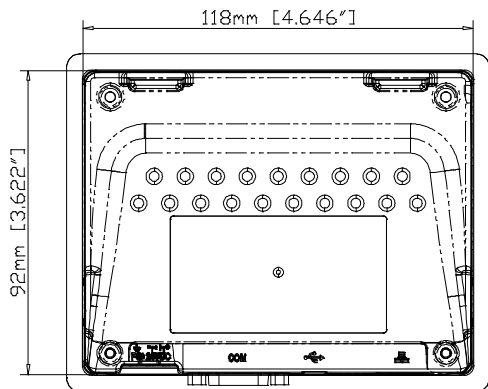
### ◆ Dimensions Drawing



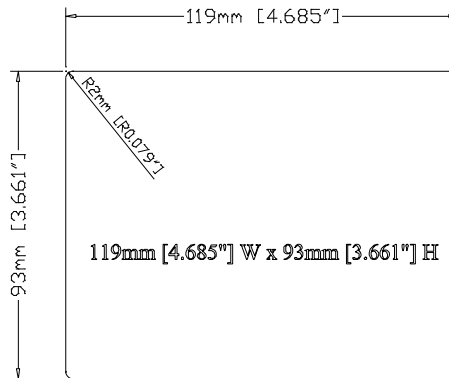
*Front View*



*Bottom View*

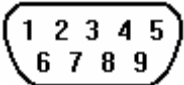


*Rear View*



*Cutout Dimensions*

### Pin Designations



Pin assignment of the 9 Pin, Male, D-sub  
 COM1: RS-232/RS-485 2W/4W  
 COM3: RS-485 2W

| PIN# | Symbol | COM1 [RS485] |        | COM1 [RS232] | COM3 [RS485] |
|------|--------|--------------|--------|--------------|--------------|
|      |        | 4 wire       | 2 wire |              |              |
| 1    | Rx-    | Rx-          | Data-  |              |              |
| 2    | Rx+    | Rx+          | Data+  |              |              |
| 3    | Tx-    | Tx-          |        |              |              |
| 4    | TX+    | TX+          |        |              |              |
| 5    | GND    | GND          |        |              |              |
| 6    | TxD    |              |        | Transmit     |              |
| 7    | Data-  |              |        |              | Data-        |
| 8    | Data+  |              |        |              | Data+        |
| 9    | RxD    |              |        | Receive      |              |

|   |  |
|---|--|
| a | Power Connector                              |
| b | COM1: RS-232/RS-485 2W/4W<br>COM3: RS-485 2W |
| c | USB Host Port                                |
| d | Ethernet Port                                |

**Ordering Information**

☐ **MT8050iE:**  
 4.3" TFT LCD HMI, 128 MB flash memory /  
 128 MB DDR2 RAM on board.