



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

Display	Display	7" TFT
	Resolution	800 x 480
	Brightness (cd/m ²)	400
	Contrast Ratio	500:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.7M
Touch Panel	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	128 MB
	RAM	128 MB
Processor		32 bits RISC Cortex-A8 600MHz
I/O Port	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 COM2: 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
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	450mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	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
Environment	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)
Certificate	CE	CE marked
	ATEX	ATEX Zone 2/22 Category 3 G/D
Software		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"]

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

Ordering Information

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

MT8071iE1

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+

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