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Product News: July 08, 2016



New Product Announcement

MT8102iE MT8103iE

WiFi HMI enables you to quickly create
Industry 4.0 workplace



Built-In Wi-Fi
Easily connect to the network
(MT8102iE excluded)

EasyAccess2.0

EasyAccess 2.0 License Included
Not required to use activation card
to activate EasyAccess 2.0 service
(MT8102iE excluded)



High resolution
1024 x 600 pixels



Slimmer and lighter
1KG / 36.4mm

■Introduction

In 2009, Weintek unveiled MT8100i which was the first to adopt 10.1" 16:9 widescreen in the HMI market. Compared with 10.4" 4:3 HMI which had been widely used then, the 10.1" HMI not only offers a higher resolution (800x480 vs. 640x480), but also is priced competitively. Later in 2013, Weintek released MT8100iE, with CPU upgraded to Cortex A8 600MHz. Owing to that, MT8100iE runs more smoothly and boasts much shorter boot time; in addition, it benefits considerably from the richer functionalities and capabilities of the newer generation of software, the EasyBuilder Pro. Observing the market trend, almost all of the HMI manufacturers nowadays produce 10.1" model, furthermore, many adopt the same cutout dimension (192x138 mm) as MT8100i. This history clearly proves that Weintek leads HMI trends, by setting the HMI standards in the industry.

Being the lead, Weintek is not satisfied with the past success. Weintek continuously invest heavily in Research and Developments and devote to innovation, to meet its goal, which is not only to fulfill customers' current needs, but also to foresee the future and always prepare ahead.

As the fourth industrial revolution takes shape, a growing number of customers require their HMIs to connect with ERP or other monitoring systems. Although Ethernet is the most widely used communication protocol between HMI and monitoring system, not every factory is built with Ethernet wiring taken into consideration. In this case, Wi-Fi connectivity comes to the best solution. Based on MT8101iE, Weintek introduces the two new models, MT8103iE and MT8102iE, where MT8103iE is equipped with a Wi-Fi module and MT8102iE is not. Both models adopt better LCD.

Designed with new technology, MT8102iE & MT8103iE boast many hardware upgrades over previous models. The powerful components can be packed into a lightweight (1.3kg à 1kg) and slimmer (40mm à 36.4mm) case. With DIP switch removed, the back cover of HMI is more stylish and sleek. The functions of DIP switch are implemented in easier manners. For example, show/hide system setting bar by configuring EasyBuilder Pro project; or enter the touchscreen calibration mode by touching the screen for 3 seconds after rebooting the HMI.

MT8102iE & MT8103iE are equipped with a 10.1" higher resolution LCD (1024x600 pixels and 16.7M colors), wider viewing angle (T:60° / B:60° / L:70° / R:70°), and longer lifespan (50,000 hours).

The Wi-Fi module embedded in MT8103iE is compliant with 802.11a/b/g/n wireless communication standards and WPA-PSK/WPA2-PSK secure connection modes, enabling HMI to send/collect vital data efficiently, accurately, and safely in harsh and complicated industrial environment.

Features

High performance :

- Equipped with Cortex A8 600MHz CPU, 128MB Flash, and 128MB RAM.

Advanced-visualization :

- Equipped with a 10.1" TFT touchscreen capable of displaying up to 16.7M colors on a vivid 1024 x 600-pixel screen with wide viewing angle (T:60° / B:60° / L:70° / R:70°).

Powerful connectivity :

- Support more than 250 major manufacturers of PLC and controller.

High reliability :

- The water penetration resistance avoids corrosion of the PCB, and the two industrial level protections: PCB coating and power isolation ensure HMI's durability and reliability in any harsh environment.

Remote access service, EasyAccess2.0 :

- The EasyAccess 2.0 license is included with the MT8103iE, therefore it is not required to use an activation card to activate EasyAccess 2.0 service.

MT8100iE/MT8101iE/MT8102iE/MT8103iE Hardware Comparisons

	MT8100iE [↵]	MT8101iE [↵]	MT8102iE [↵]	MT8103iE [↵]
Resolution[↵]	800x480 [↵]		1024x600 [↵]	
Brightness(cd/m2)[↵]	300 [↵]		350 [↵]	
Backlight life time[↵]	>30,000 hrs. [↵]		>50,000 hrs. [↵]	
Colors[↵]	262K [↵]		16.7M [↵]	
Serial ports[↵]	COM1:RS-232/RS-485 2W/4W [↵] COM3: RS-485 2W [↵]	COM1:RS-232 [↵] COM2: RS-485 2W/4W [↵] COM3: RS-485 2W [↵]	Con.A: [↵] COM2: RS-485 2W/4W [↵] COM3: RS-485 2W [↵] Con.B: [↵] COM1:RS-232 [↵] COM3: RS-232 [↵]	
Wi-Fi module[↵]	N/A [↵]		N/A [↵]	Yes [↵]
Panel cutout[↵]	260x202 mm [↵]		260x202 mm [↵]	
Thickness[↵]	40 mm [↵]		36.4 mm [↵]	
Weight[↵]	1.3 kg [↵]		1 kg [↵]	

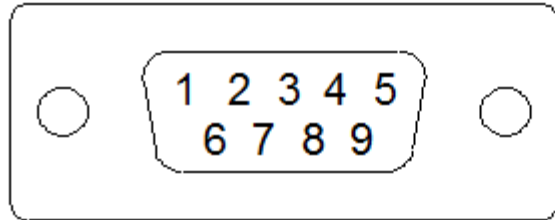
Remarks :

MT8102iE/MT8103iE's COM3 can either use RS-485 or RS-232. However, only Tx & Rx (no RTS/CTS) may be used for COM1 RS232 when COM3 RS-232 is also used.

MT8100iE/MT8101iE/MT8102iE/MT8103iE COM Port Pin-out Comparisons

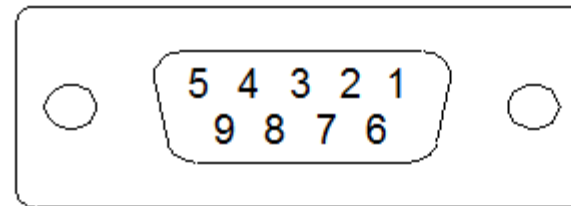
MT8101iE

COM1 [RS232] 9 Pin, Male, D-Sub



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

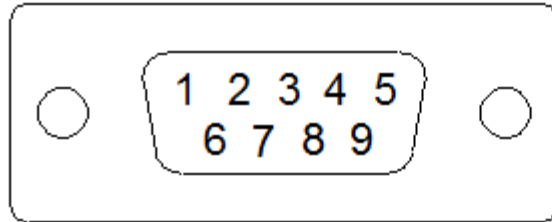
COM2/COM3 [RS485] 9 Pin, Female, D-Sub



PIN#	COM2[RS485]2W	COM2[RS485]4W	COM3[RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND		
6			Data-
7			
8			
9			Data+

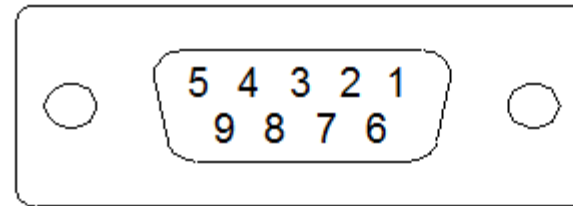
MT8100iE

COM1 [RS232] 9 Pin, Male, D-Sub



PIN#	COM1[RS232]
1	
2	<u>RxD</u>
3	<u>TxD</u>
4	
5	GND
6	
7	RTS
8	CTS
9	

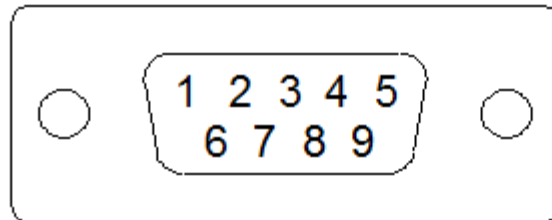
COM2/COM3 [RS485] 9 Pin, Female, D-Sub



PIN#	COM1[RS485]2W	COM1[RS485]4W	COM3[RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		<u>Tx-</u>	
4		<u>Tx+</u>	
5	GND		
6			
7			Data-
8			Data+
9			GND(COM3)

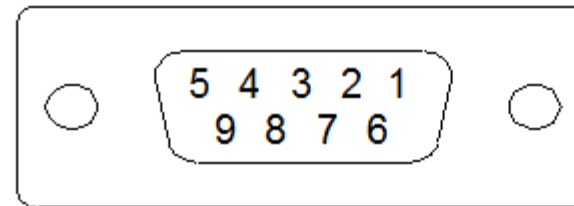
MT8102iE / MT8103iE

Con.B: COM1/COM3 [RS232] 9pin, Male, D-Sub



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

Con.A: COM2/COM3 [RS485] 9 Pin, Female, D-Sub



PIN#	COM2[RS485]2W	COM2[RS485]4W	COM3[RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND		
6			Data-
7			
8			
9			Data+

[WEINTEK® HMI MT8102 iE 10.1"](#)



[WEINTEK® HMI MT8103 10.1"](#)



For more information, visit : [WEINTEK® product range](#) and contact sales@napa.fr

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