


eMT3070A1 / eMT3070B1 Hardware Comparison



Specifications

Models	eMT3070A1	eMT3070B1 NEW
Display	7" TFT	7" TFT
Resolution(WxH dots)	800x480	800x480
Brightness (cd/m ²)	500	500
Contrast Ratio	500:1	500:1
Backlight Type	LED	LED
Backlight Life Time	>30,000 hr.	>30,000 hr.
Display Colors	16.7M	16.7M
Type	4-wire Resistive Type	4-wire Resistive Type
Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Flash (MB)	256 MB	256 MB
RAM (MB)	256 MB	256 MB
Processor	32 Bit RISC CPU 600MHz	32 Bit RISC CPU 1GHz 
SD Card Slot	SD/SDHC	SD/SDHC
USB Host	USB 2.0 x 1	USB 2.0 x 1
USB Client	USB 2.0 x 1	USB 2.0 x 1 (Micro USB)
Ethernet	RJ45 port (10/100 Base-T) x 1	RJ45 port (10/100 Base-T) x 1
COM Port	COM1 (RS-232/RS-485 2W/4W), COM3 (RS-232/RS-485 2W)*	COM1 (RS-232/RS-485 2W/4W), COM3 (RS-232/RS-485 2W)*
CAN Bus	Yes	Yes
Audio Output	Audio Line Out - 3.5 mm jack x 1	Audio Line Out - 3.5 mm jack x 1
Video Input	N/A	N/A
RTC	Built-in	Built-in
Input Power	24±20%VDC	24±20%VDC
Power Consumption	400mA@24V	400mA@24V
Power Isolation	Built-in	Built-in
RS-485 Dual Isolation	Yes	Yes
Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)
Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC
Vibration Endurance	10 to 25Hz(X,Y,Z direction 2G 30 minutes)	10 to 25Hz(X,Y,Z direction 2G 30 minutes)
Enclosure	Aluminum	Aluminum
Dimensions WxHxD	200 x 146 x 42.5mm	200 x 146 x 42.5mm
Panel Cutout (mm)	192 x 138mm	192 x 138mm
Weight (kg)	Approx. 0.9 kg	Approx. 0.9 kg
Protection Structure	NEMA4 / UL Type 4X / IP66	NEMA4 / UL Type 4X / IP66
Storage Temperature	-20°~70°C (-4°~158°F)	-20°~70°C (-4°~158°F)
Operation Temperature	-20°~50°C (-4°~122°F)	-20°~50°C (-4°~122°F)
Relative Humidity	10%~90% (non-condensing)	10%~90% (non-condensing)
PCB Coating	Yes	Yes
CE	CE marked	CE marked
UL	cULus Listed	Applying

*Note: COM1 RS-232 RTS/CTS and COM3 RS-232 cannot be used simultaneously.

eMT3070A1 & eMT3070B1 COM Port



eMT3070A1			
D-Sub 9 Pin Male			
PIN#	Symbol	COM1 [RS232]	COM3 [RS232]
1	Not Used	Received Data	
2	RxD	Transmitted Data	
3	TxD		
4	Not Used		
5	GND	Ground	
6	Not Used		
7	RTS	Ready to Send Output	Transmitted Data
8	CTS	Clear to Send Input	Received Data
9	Not Used		

eMT3070B1			
D-Sub 9 Pin Male			
PIN#	Symbol	COM1 [RS232]	COM3 [RS232]
1	Not Used	Received Data	
2	RxD	Transmitted Data	
3	TxD		
4	Not Used		
5	GND	Ground	
6	Not Used		
7	RTS	Ready to Send Output	Transmitted Data
8	CTS	Clear to Send Input	Received Data
9	Not Used		



eMT3070A1					
D-Sub 9 Pin Female					
PIN#	Symbol	COM1 [RS485]		COM3 [RS485]	CAN BUS
		2W	4W		
1	Rx-	Data-	Rx-		
2	Rx+	Data+	Rx+		
3	Tx-		Tx-		
4	Tx+		Tx+		
5	GND	Ground			
6	Data-			Data-	
7	CAN_L				CAN_L
8	CAN_H				CAN_H
9	Data+			Data+	

eMT3070B1					
D-Sub 9 Pin Female					
PIN#	Symbol	COM1 [RS485]		COM3 [RS485]	CAN BUS
		2W	4W		
1	Rx-	Data-	Rx-		
2	Rx+	Data+	Rx+		
3	Tx-		Tx-		
4	Tx+		Tx+		
5	GND	Ground			
6	Data-			Data-	
7	CAN_L				CAN_L
8	CAN_H				CAN_H
9	Data+			Data+	

eMT3070A1 & eMT3070B1 Software Comparison

Feature	eMT3070A1	eMT3070B1
Programming Software	EB Pro	EB Pro V5.00.01 or later
Project Size	64MB	64MB
History Data Size	64MB	64MB
Embed Pictures in Project	✓	✓
Embed PLC Tag Information in Project	✓	✓
Project Protection	✓	✓
Enhanced Security	✓	✓
Recipe Database / View Database	✓	✓
Operation Log / Operation View	✓	✓
eMail	✓	✓
Media Player	N/A	N/A
Audio Output	✓	✓
Video Input	N/A	N/A
USB CAM	✓	✓
Flow Block	✓	✓
Combo Button	✓	✓
Circular Trend Display	✓	✓
Picture View	✓	✓
CAN Bus	✓	✓
VNC	✓	✓
Download Project via USB Cable	✓	✓
Download Project via USB Disk	✓	✓
Download Project via Ethernet	✓	✓
User-Defined Boot Screen	✓	✓
EasySystemSetting	✓	✓