

HMI with 12.1" XVGA TFT Display

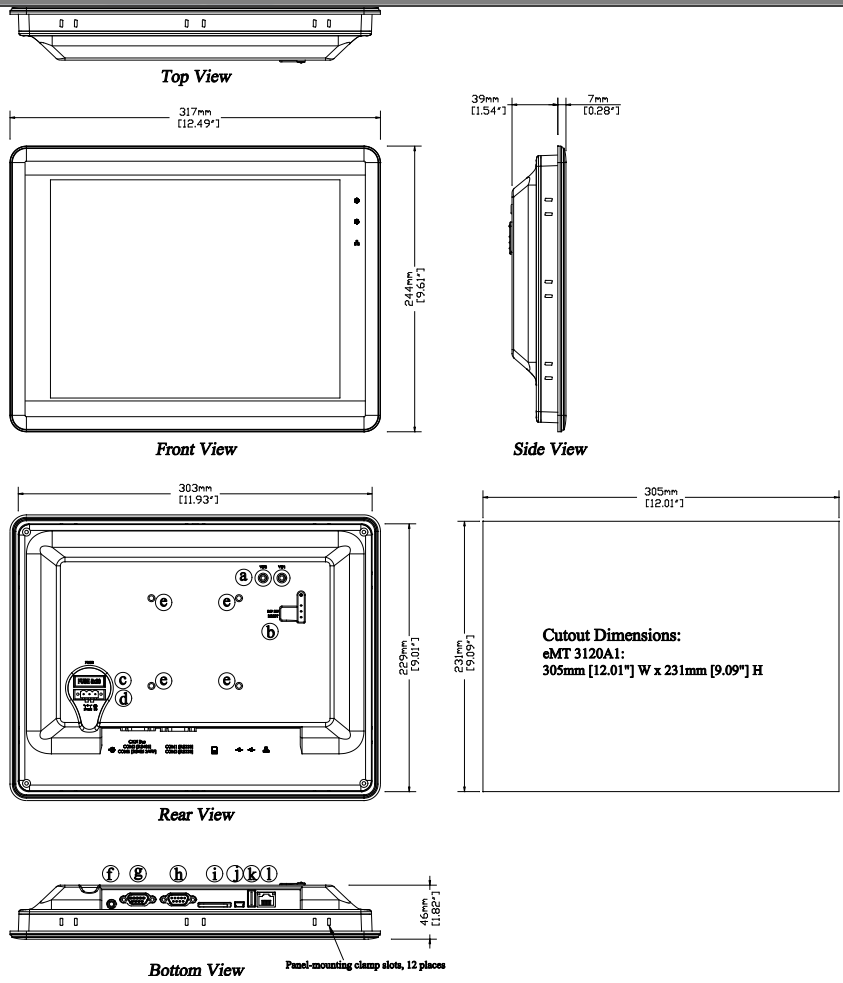


Feature

- Aluminum Housing and Brand New Color & Design
- 12.1" 1024 x 768 TFT Industrial Grade LCD
- Long Life LED Back Light with Ceramics Package
- Fan-less Cooling System
- Built-in 256 MB Flash Memory and RTC
- SD Card Slot for Extension of Storage
- One USB Host Port and one USB Client Port
- COM1 and COM3 RS-485 & CAN Bus Built-in Isolation
- COM1 and COM3 RS-485 2W supports MPI 187.5K, please use one at one time
- CAN Bus port supports CANopen Protocol
- Video Input ports support NTSC and PAL
- Built-in Power Isolator
- NEMA4 / IP66 Compliant Front Panel

Display	Display	12.1" TFT	
	Resolution	1024 x 768	
	Brightness (cd/m ²)	500	
	Contrast Ratio	700:1	
	Backlight Type	LED	
	Backlight Life Time	>50,000 hrs.	
	Colors	16.2M	
Touch Panel	Type	4-wire Resistive Type	
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	
Memory	Flash	256 MB	
	RAM	256 MB	
Processor		32 bit RISC CPU 800MHz	
I/O Port	SD Card Slot	SD/SDHC	
	USB Host	USB 2.0 x 1	
	USB Client	USB 2.0 x 1	
	Ethernet	10/100 Base-T x 1	
	COM Port	COM1: RS-232/RS-485 2W/4W COM3: RS-232/RS-485 2W*	
	RS-485 Dual Isolation	Yes	
	CAN Bus	Yes	
	HDMI	N/A	
	Audio Output	Audio Line Out – 3.5 mm jack x 1	
Video Input	NTSC/PAL RCA x 2		
RTC		Built-in	
Power	Input Power	24±20%VDC	
	Power Isolation	Built-in	
	Power Consumption	850m A@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	Aluminum	
	Dimensions WxHxD	317 x 244 x 46 mm	
	Panel Cutout	305 x 231 mm	
	Weight	Approx. 2.1 kg	
Mount	Panel mount, VESA mount 75 x 75 mm		
Environment	Protection Structure	NEMA 4 / IP66 Compliant Front Panel	
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)	
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)	
	Relative Humidity	10% ~ 90% (non-condensing)	
Certificate	CE	CE marked	
	UL	cULus Listed	
Software		EasyBuilder Pro	

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



a	Video Input Port x 2	g	COM1 RS-485, COM3 RS-485, CAN Bus
b	DIP SW & Reset Button	h	COM1 RS-232, COM3 RS-232
c	Fuse	i	SD Card Slot
d	Power Connector	j	USB Client Port
e	VESA 75 mm Screw Holes	k	USB Host Port
f	Line Out	l	Ethernet Port

Ordering Information

- eMT3120A**
12.1" TFT LCD HMI, 256 MB flash memory / 256 MB RAM on board, Video Input Port RCA x 2
- FLZ485000**
Multi-Connector cable COM1[485] / COM3[485] / CAN Bus
- FLZ232000**
Multi-Connector cable COM1[232] / COM3[232]

Pin Assignment:

COM1 / COM3 [RS232] 9 Pin, Male, D-sub

PIN#	Symbol	COM1 [RS232]	COM3 [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	Transmitted Data
8	CTS	Clear to send	Received Data
9	Not used		

COM1 / COM3 [RS485] / CAN Bus 9 Pin, Female, D-sub

PIN#	Symbol	Com1 [RS485]2w	Com1 [RS485]4w	Com3 [RS485]	CAN Bus
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+	