



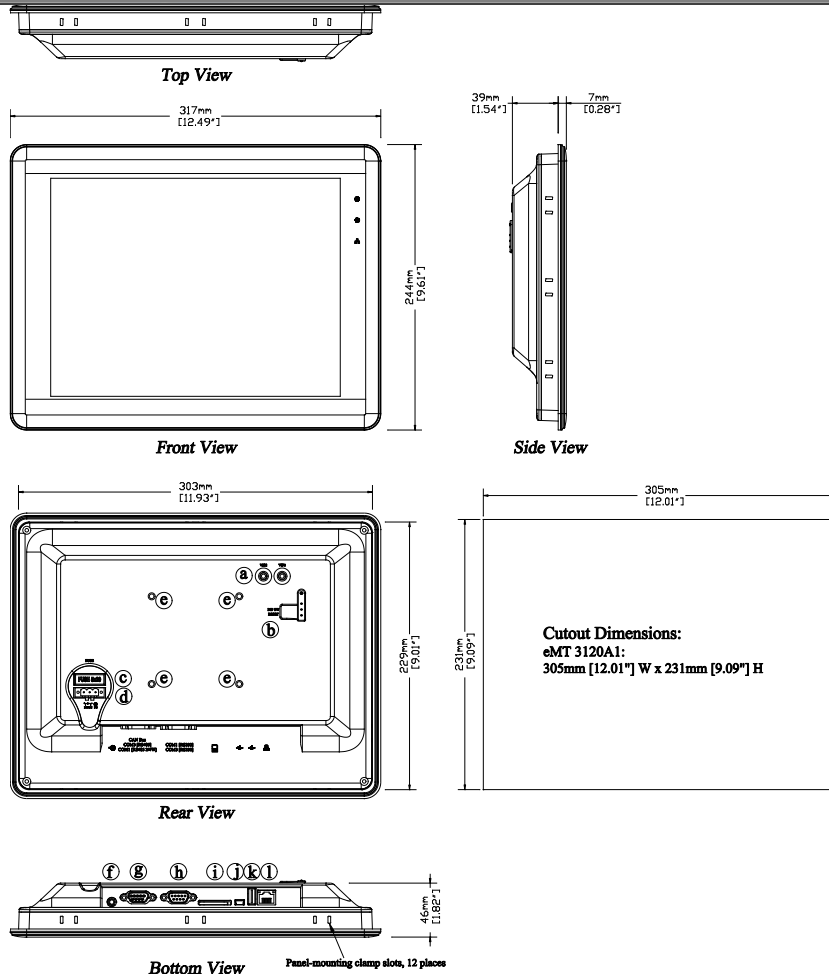
HMI with 12.1" X VGA TFT Display

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 Expansion 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 |

*Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.



| | | | |
|----------|------------------------|----------|-----------------------------------|
| 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+ | |