

TRMI Display Customers

Cameron County Bridge, Brownsville, TX

Starr County Int'l Bridge, Roma TX

City of Eagle Pass, Eagle Pass, TX

Blue Water Bridge, Port Huron, MI

Mackinac Bridge, St. Ignace, MI

International Bridge Authority,
Sault Ste. Marie, MI



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TRMI Display





TRMI Display uses a high contrast and bright LCD (liquid crystal display) designed for outdoor use and can be used in a variety of information-providing applications, including:

- Toll system: patron fare display
- Toll system: overhead variable message sign
- Airport ground transportation vehicle control
- Gas station TV, messages, advertisement
- Public & private transportation vehicle terminals
- Solar powered public & private roadside information signs
- Any outdoor setting where a non-interactive or interactive (touch screen) display is required

TRMI Display can be sold in various sizes, starting at 15" and 19" models, with larger and custom versions available. Each unit contains an Intel CPU based computer and can be sold with optional modules for digital I/O and TRMI Treadle input. TRMI Display can be sold with or without a touch screen, enabling customer interaction in a custom KIOSK environment.

Each unit may be controlled and configured via direct web browser interface, RS232 or TCP/IP Sockets. The current date, time and outdoor temperature can be displayed at the top of every screen or shown in a larger font as part of script messages sent to the display.

TRMI Display is housed in a powder coated aluminum enclosure, including the front door which has a compression latch lock and finger pull for ease of use. Dual ventilation fans move air at a rate of 31 CFM each and an optional heating system may be ordered and preinstalled for colder environments.

All computer driven models have the ability to process and present local jurisdiction real-time events, via state e-mail alert systems, such as:

- Amber alerts
- Missing person alerts
- DOT traffic alerts
- Severe weather alerts
- USGS earthquake alerts

TRMI Display is customizable and can display any text, image or video the end user wishes to show on it. Using a web browser interface or simple programming, anyone can configure pre-defined messages and multimedia objects to be displayed in any order and rate, along with various effects and options. The same scripting commands may be used to drive the display dynamically via Socket or RS232 protocols from any host computer.

When connected via Ethernet, multiple displays may be linked together virtually and controlled as a single group or multiple groups, with one of the displays acting at the master control unit. A single command to the master display may be designated to show up on one or more displays or all displays at the same time.



SPECIFICATIONS:

Enclosure

Material: 12 gauge (.081) 5052-H32 Aluminum (housing)
Door is 8 gauge (.125)

Finish: Polyester TGIC-Free Powder Coat

Welding: Standard TIG welding process. All welds are continuous and ground smooth

Lock/Key: The door lock assembly is an EMKA device called a Compression Latch. It includes a Cam, a 5mm Double Bit Key, and Finger Pull for ease of opening the door.

Ventilation: Two 115VAC axial fans, each producing 31 CFM air flow, create negative air pressure with filters located near the bottom of the enclosure, pulling air up across the monitor and panel components. Each fan has an in-line thermostat built in. Fans switch on at 86 deg. F (30 deg. C), and switch off at 75 deg. F (24 deg. C).

Window: Non-glare clear acrylic (EVONIK ACRYLITE P-99 Non-Glare Acrylic). Light weight, impact resistant, UV protection, excellent clarity, minimizes glare and reflection.

Power: 120VAC 10 amp AC input power distributed to two DC power supplies (5V and 12V)

Environment: Water resistant with hood projection against rain and sun. UV class screen protector.

Software

Command protocol: Backward compatible with older TRMI patron fare displays (LED models)

Newer syntax: Easy to learn fully flexible scripting commands
Asynchronous and synchronous events

Real time alerts: Configurable to come directly to the unit via secure Internet connection or via optional local TRMI software running on the customer's system.

Operating System:

Windows 10, fully accessible to the end user for custom programming and maintenance.

Options

Digital I/O: Digital Input/Output module allows for up to 16 inputs and 16 outputs (isolated, 5V TTL)

Heater: Two 120 VAC STEGO PTC heaters, using only 13 watts each, adjusts to ambient temperature while PTC (Positive Temperature Coefficient) technology replaces resistance wire with ceramic stones or chips, making it superior to coil electric heaters. The units are controlled by a DIN rail mounted STEGO thermostat with an operating temperature of -4 deg. F (-20 deg. C) to +176 deg. F (80 deg. C).

Central Software: Modules which run on Windows server (2008 and beyond) or desktop operating systems (7, 8.1, 10) that configure, monitor and control all TRMI Display units via Ethernet using various protocols, including MSMQ, FTP and TCP/IP Sockets. Includes centralized alert handling system to automatically, semi-automatically or manually send alert messages to the displays, including Amber Alerts.

