

# MATRIX MESSAGE BOARD

MMB-RGB 96X16



## KEY FEATURES

- + Full-Matrix RGB LED Display
- + 96 x 16 Pixels for Clear Message Presentation
- + Text, Arrows, Signs, Warnings Patterns
- + Long Message presentation - Scroll or Push Transitions
- + Unique In-Dash Mounting
- + CAN Bus Communications

The **Matrix Message Board MMB-RGB 96x16** is mainly designed to be mounted on special vehicles to warn or direct traffic, provide information and to secure danger spots on streets or in public areas. The patterns, such as text, arrows and signs are pre-programed according to the customers needs as well as the colour of the pattern itself. Default colour is amber.

The in-dash mounting of the MMB is unique on the market. The board is practically installed flat with the vehicles side to give it a modern look.

The MMB is a part of Emitter Electronics MMX family products and can be controlled by MMX LCD units, keypads or used together with customers CAN bus system.

Black coated aluminium housing and UV protected polycarbonate front plate are made for long lasting operation and are highly resistant to all weather conditions.



## SPECIFICATIONS

### POWER

**Supply Voltage** 8-32 V DC

**Current** max. 0.7 A @ 24 V  
max. 1.4 A @ 12 V

**Electrical Protection** overvoltage, transients, reverse polarity, load dump

### INTERFACES

**CAN** 1x CAN, ISO 11898 2.0 A/B up to 1 Mbps, protocols SAE J1939, CAN open, free, etc.

**CAN Termination** 120 Ohm, DIP switch

### LED MATRIX

**LED** matrix 96x16 RGB super bright SMD LEDs

**Message presentation** arrows, text, signs and other patterns

**Message animation** steady, scroll, push

**Light sensor** optional

### ENVIROMENT

**IP Class (IEC529)** IP65, front panel IP67

**EMC Conformity** EN61000-6-2 noise immunity  
EN61000-6-4 radiation of interference

**Temperature Range** storage -40° to +85°C (-40° to 185°F)  
operating -40° to +85°C (-40° to 185°F)

### ENCLOSURE

**Housing Material** aluminium housing - black coated, polycarbonate front plate - transparent

**Mounting** in-dash with 6 screws M5 or tapping screws with max. diameter of 5 mm

**Connector** Deutsch DT06-06S, automotive 6-way connector, waterproof

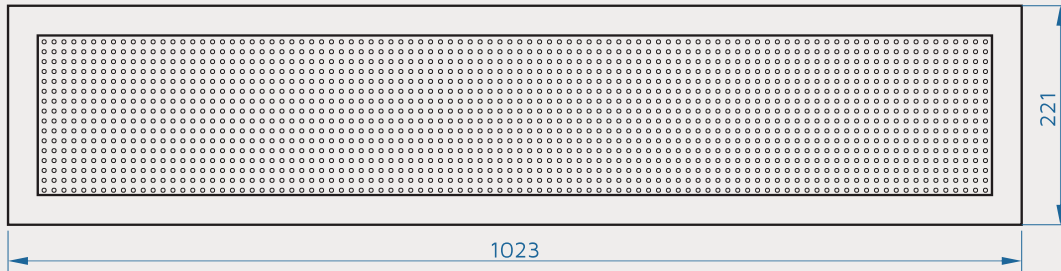
### SIZE & WEIGHT

**W x H x D** 1023 x 221 x 56 (34 without connector)

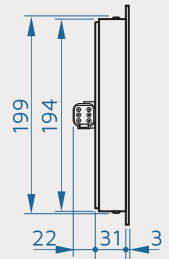
**Weight** 4 kg

## DIMENSIONS

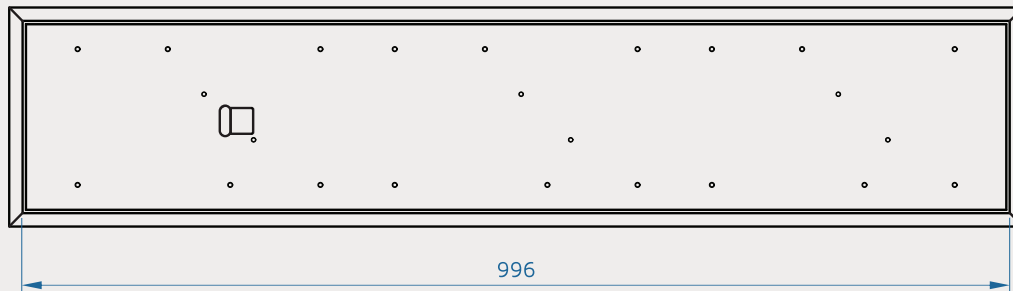
FRONT VIEW



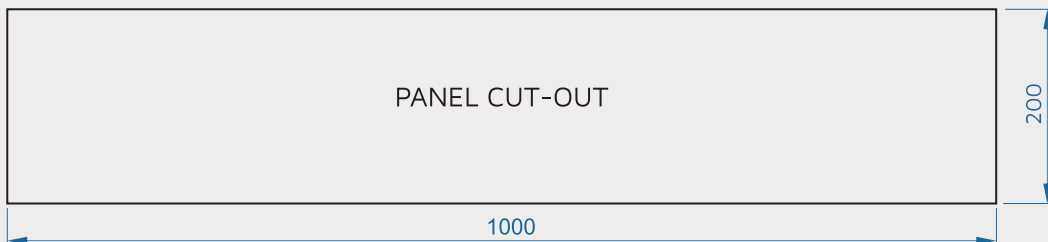
SIDE VIEW



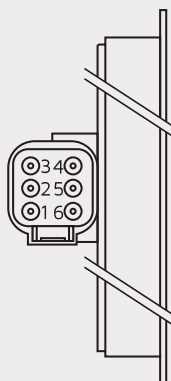
REAR VIEW



PANEL CUT-OUT



## CONNECTIONS



### CONNECTION DEUTSCH DT06-6S

PIN	Description
1	BATTERY +
2	CAN L
3	CAN L, INTERNAL SHORTED TO PIN 2
4	CAN H
5	CAN H, INTERNAL SHORTED TO PIN 4
6	GND (BATTERY -)

## PRODUCT CODE

**MMB-RGB 96X16** matrix message board, 96x16 px, RGB, CAN

Standard

Active

*For more options please contact the supplier.*