

LUMINATOR MULTIFUNCTION INTERFACE MODULE - MIM

Controller and Interface for CONVEY™ Systems



FEATURES

- Ethernet connection to on-board switch ensures constant communication with CONVEY™ displays, keeping presentations and route ladders up to date.
- On-board location awareness software uses an external GPS receiver to determine vehicle position, driving route ladders and geolocation announcements for relevant content.
- Flexible GPIO through discrete or J1939 (CAN bus) interfaces monitors on-vehicle status, enabling conditional behavior in presentations.
- Future upgrades include sound processing, high-quality text-to-speech, operator interfaces, and automated control of Luminator® destination signs.
- Integration with Luminator® Software Suite provides transparent information management, reporting system health to reduce maintenance and accurately track vehicle status.

The MIM acts as a central hub on the vehicle to connect several inputs and outputs to create a seamless passenger information experience.

TECHNICAL DATA

Input Voltage	9-33 VDC
Power Consumption	24 W
Connections	(2) Ethernet
	J1939 CAN bus
	RS485
	USB-A
	USB-C OTG
	Audio (future expansion)
	8 discrete battery voltage Inputs: 4 source or sink, 4 sink. 2 Outputs
Weight	1 lb. (0.45 kg)
Dimensions	8.8" wide, 4.9" deep, 1.8" tall (224 mm x 125 mm x 46 mm)
Mounting Holes	0.27" (6.9 mm)
Electrical rating	IP41
Operating Temperature	-20° C to 55° C
Storage Temperature	-25° C to 60° C
Enclosure Material	Powder Coated Aluminum

SYSTEM COMPONENTS

The MIM is part of a digital passenger information system with TFT displays, custom mounting, and cables, all connected to Luminator's networking hardware. Combined with the Luminator® Software Suite, it provides a flexible and easily maintained system.

This system integrates with Luminator® Destination signs through the Software Suite, offering a cloud-based platform to manage passenger information for one vehicle or a fleet from one location. This reduces training needs and enhances passenger experience.

