



# INTEGRATED TRAILER CONTROL MODULE

## Lights and Brakes

[www.ghsp.com](http://www.ghsp.com) • [info@ghsp.com](mailto:info@ghsp.com)

## FLEXIBLE INSTALLATION, POWERFUL PERFORMANCE

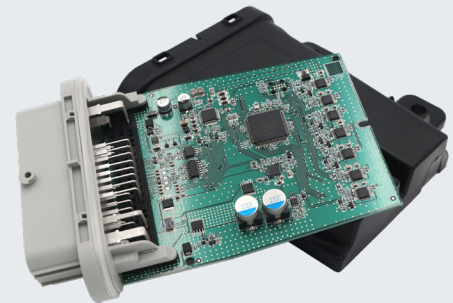
The GHSP integrated trailer control module (ITCM) offers unmatched versatility for seamless integration into various vehicle types. Its design allows for horizontal or vertical mounting configurations, including under-seat, B-pillar, and rear cab wall placements. This flexibility simplifies installation and ensures compatibility with a wide range of vehicle layouts.

Another powerful advantage: the ITCM memory stores and manages unique calibration settings for multiple vehicle configurations. This allows several vehicles to share the same software.

For drivers, the ITCM enables them to store numerous trailer profiles for their vehicle. This eliminates the need to reconfigure each time they switch trailers, saving time and ensuring optimal braking performance for every tow.

## FUNCTIONALITY

- Detect and control trailer lighting (LED or incandescent)
- Detect and control brakes (up to 4 axles)
- Failsafe design for brake and lighting control if micro fails
- Provide power and poll center stack input switches
- Store information for customer-defined trailers
- CAN Gateway for trailer tire pressure monitoring system (TPMS) communication
- Detect trailer connection/disconnection (lights and/or brakes)
- Compliant to the newest cybersecurity standards
- EMEA version supports separated lighting making it compliant with European regulations



## ENHANCED SAFETY

Through Seamless Connectivity

The ITCM seamlessly interfaces with your vehicle's existing brake control, stability control, and restraint control systems through redundant CAN-FD communication channels. This ensures constant communication and coordinated operation between these critical systems, promoting superior towing safety.

## INTELLIGENT BRAKING

Control for Every Haul

The ITCM features a sophisticated software braking algorithm that delivers optimal trailer brake performance. The algorithm calculates the ideal brake output for the trailer based on speed and brake torque information from the tow vehicles CAN network and the trailer configuration settings. Initial calibration of this braking algorithm is determined during development and fine-tuned during vehicle testing before it is finalized. This includes vehicle specific trailer brake apply and release ramp rates, along with initial boost and sensitivity values.

## INPUTS

Brake Pedal



Brake Pedal Panic



Hill Start/Assist



Trailer Sway



Manual Brake Switch

