

# MULTI-PLATFORM APPLIQUÉ KIT (M-PAK®)

## DATA SHEET & TECHNICAL SPECIFICATIONS



The Multi-Platform Appliqué Kit (M-PAK®) is the next generation of Ground Vehicle automation. This system can be used to quickly and easily convert your existing fleet of standard human-driven vehicles into optionally-manned systems that can be driven in manned or unmanned modes. M-PAK® does NOT degrade ingress or egress characteristics for a driver when in manual driving mode and has been designed from the ground up with safety as a top priority when in automated modes of operation. It includes a vehicle control module, an innovative quick-install steering actuator, actuators for acceleration and braking, transmission controller, and an active safety system.

M-PAK® is a scalable system that can be used as a stand-alone vehicle mobility kit or sensors can be added to offer various levels of autonomy. It supports Tele-Op remote control operation using Micro Systems fixed site and man-portable Command and Control (C2) systems, GPS waypoint following, and Leader/Follower (manned/unmanned teaming). M-PAK® allows for a semi-permanent installation in a vehicle, which releases the user from committing to one vehicle platform or a particular vehicle. It can move freely among a variety of vehicle types and enables optional dependable unmanned capabilities for a number of applications.

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### Features

- ▶ Developed using proven technology
- ▶ Modular design
- ▶ Standard interfaces
- ▶ Field upgradable
- ▶ Ruggedized portable system
- ▶ Vehicle Independent Datalink

### Applications

- ▶ Training
- ▶ Weapons Evaluation
- ▶ Tactical Operations
- ▶ Route and Range Clearance
- ▶ Equipment Transportation
- ▶ Mining/Construction
- ▶ Security/Perimeter Patrol
- ▶ Commercial Use

### Vehicle Control Module



### Actuators



### Safety System



### Vehicle Installation Kit General Specifications

- ▶ Quickly converts most human-driven vehicles into unmanned systems
- ▶ Operates in Manual, Remote Control, GPS Path Following, and Leader/Follower Modes
- ▶ Compatible with Micro Systems C2 Systems (fixed site and man-portable)
- ▶ Designed with standardized components for easy upgrade and extended lifecycle
- ▶ No driver ingress or egress interference
- ▶ Includes Active Safety System
- ▶ Multiple configurations available
- ▶ Scalable to application
- ▶ User Interfaces include: Ethernet, CAN/J1929, RS-232/422, and USB
- ▶ Datalink Independent (UHF, WiFi, standard military datalinks)
- ▶ Quick and easy installation
- ▶ Power: 12VDC

📍 35 Hill Ave.  
Fort Walton Beach, FL 32548

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🌐 [www.kratos-msi.com](http://www.kratos-msi.com)

☎ (850) 244-2332