

# MERLIN MULTIPLEX SYSTEM<sup>®</sup>

## Programmable Electronic Vehicle Control System

### FEATURES & BENEFITS

- ◆ Controls electrical loads using real-time chassis data
- ◆ Customized programming using Graphical User Interface
- ◆ Detects load fault conditions, can automatically shut down outputs when faults are detected
- ◆ Diagnostic capabilities using real-time vehicle data
- ◆ One-touch door operation
- ◆ Easy to change vehicle operating characteristics at any point in time
- ◆ Fully automatic load shedding & scheduling capabilities
- ◆ Reduces wiring complexity & volume
- ◆ Easy to read LCD display
- ◆ Custom graphics



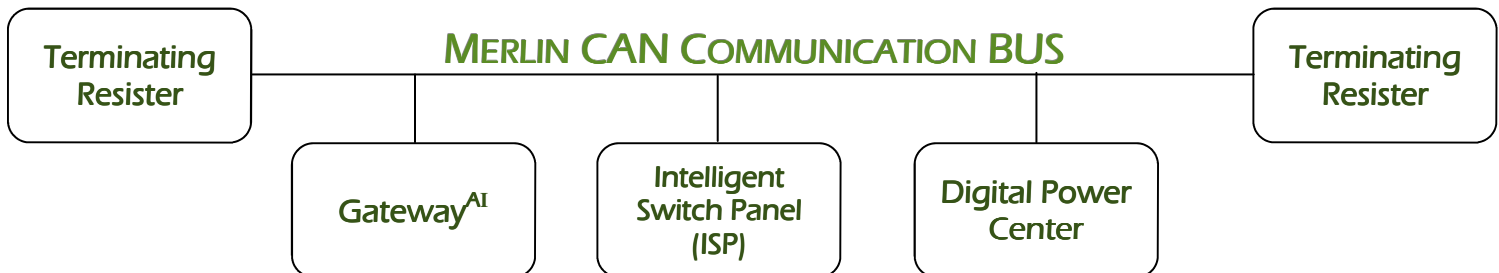
INTELENT SWITCH PANEL (ISP)

### OVERVIEW

Merlin Multiplex System, when used with InterMotive's Gateway<sup>AI</sup>, provides the ability to use real-time chassis data to control loads.

Merlin Multiplex System connects electronic modules within an automotive environment on a common control network, thereby reducing overall wiring, centralizing & improving diagnostic capabilities, & sharing valuable vehicle information between modules.

The basic InterMotive Merlin Multiplex System consists of a Switch/ Network Control module (ISP) & a Digital Power Center (DPC) networked on a CAN bus. Real time vehicle data can be transmitted on the Merlin network by adding InterMotive's Gateway<sup>AI</sup> module.



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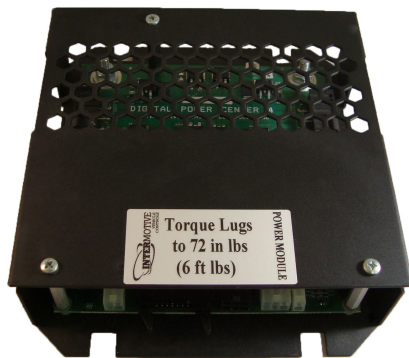
Rev. A



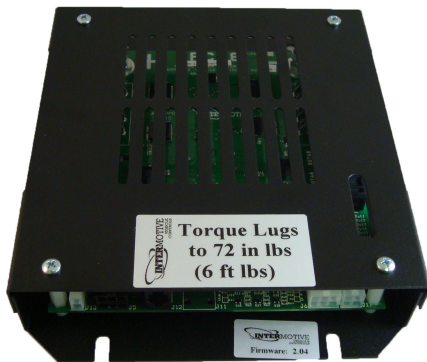
# MERLIN MULTIPLEX SYSTEM<sup>®</sup>



**INTELEGT SWITCH PANEL (ISP)**



**DPC4 DIGITAL POWER CENTER**



**DPC8 DIGITAL POWER CENTER**



**HHP HAND HELD PROGRAMMER**

## INTELLEGT SWITCH PANEL (ISP)

- ◆ Inputs: 9 (6 ground, 3 power)
- ◆ Controls devices attached to the Merlin network
- ◆ Provides reporting status & diagnostic information
- ◆ Programmed using a Graphical User Interface (GUI)
- ◆ Momentary contact switches
- ◆ Switches can be configured: On-Off; On1, On2, Off; On1, On2, On3. Off; or momentary
- ◆ Back-lit icons for easier night-time recognition
- ◆ LCD screen for load activation & fault identification
- ◆ Dimensions: 8.5"W x 4.5"H x 1.8"D

## DIGITAL POWER CENTERS (DPC)

- ◆ Controls system inputs & outputs
- ◆ DPC8: 8 power-side MOSFET (1 can be pulse width modulated)
- ◆ DPC4: 4 power MOSFET models
- ◆ Outputs: 4 rated up to 30A; 4 loads rated up to 15A (max. aggregate output 100A)
- ◆ Inputs: 6 (4 ground-side & 2 power-side)
- ◆ Operating Temp: -40°C to 85°C
- ◆ Dimensions:
  - ◆ DPC4: 7.5"L x 7.0"W x 1.3H
  - ◆ DPC8: 7.5"L x 7.0"W x 1.8"H

## HAND HELD PROGRAMMER (HHP)

- ◆ USB port interface
- ◆ One-touch, 30 second downloading
- ◆ Allows for fast programming of multiple vehicles without the need for a laptop computer
- ◆ Dimensions: 2.45"W x 4.3"H x 1.1"D

## OPTIONAL MODULES

- ◆ Gateway<sup>AI</sup>– reads chassis data & retransmits using proprietary CAN communications
- ◆ Door Controller Module– Controls electronic door



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