

Electronic Systems

DC SWITCHING MODULE - DCSM FULL MODULE



AT A GLANCE

- Rugged multiplex control module for 12 VDC applications
- CAN bus (J1939 or RVC) to communicate with other Megalink™ modules
- LIN data bus
- Multiple units can be combined in a Master/Slave configuration
- Full 16 bits 40MHz micro-controller easily controls any system
- PC tool to reprogram and configure module is available
- Fully sealed to IP67
- Excellent resistance to chemicals

Megalink™ is the perfect platform to empower your electronics with flexibility and control.

The DC Switching module (DCSM) provides engineers with the flexibility and freedom to design electronic control systems for vehicular applications. This extremely versatile controller can easily be used with keypads, serial switches and other Megalink™ modules to create a complete electronic control system or subsystem in various vehicles and applications. With its extended memory, processing capabilities, CAN/LIN networks the DCSM can be used to control real-time applications and remote subsystems at the same time.

This compact fully sealed unit uses solid state switching devices to provide extended service life in the harshest environments. The DCSM's eight power outputs also have soft-start capabilities to provide gradual ramp-up of voltage to inductive loads to avoid the common "light flickering" seen in traditional switching methods. Eight configurable inputs are available for monitoring and reporting over the CAN bus network for additional control logic.

Typical applications for the DCSM include: Vehicle lighting system, HVAC system control and Battery power distribution and management.

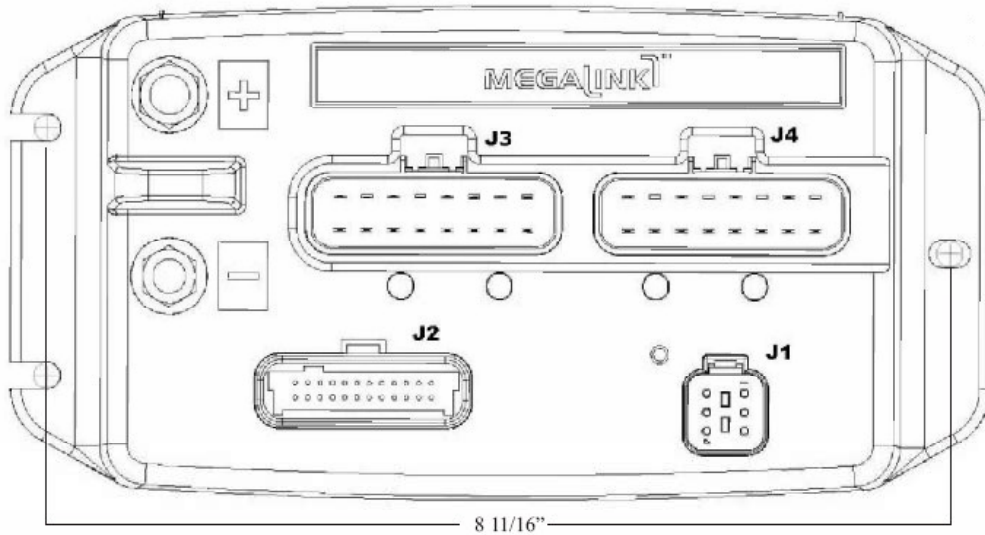
Europe: Christopher Martin Road, Basildon, Essex SS14 3ES, UK
 North America: 300 S. Cochran PO Box 588 Willis, TX USA
 Electronics: 90 - 28^e Rue Grand-Mère (Québec) G9T 5Z8 Canada
www.kongsbergautomotive.com

Tel: +44 (0) 1268 522 861
 Tel: +1 936 856 2971
 Tel: +1 819 533 3201
 email: info.pps@ka-group.com



DC SWITCHING MODULE - DCSM FULL MODEL

PRODUCT SPECIFICATIONS - MOUNTING AND DIMENSIONAL INFORMATION



GENERAL SPECIFICATIONS & TECHNICAL DATA:

- Operating voltage: 9 to 20 VDC
- Operating temperature: -40° C to 85° C
- Maximum current: 40A continuous @ 35°C
- Standby current: < 10mA
- Immunity to radiated interferences: 100 V/m
- Water resistance: IP67, (1 meter under water)
- Electrical protection: Load Dump, 12V jump start, reverse polarity, ESD
- Diagnostics:
 - Overload and open circuits
 - Display diagnostics through keypad LED status
 - Field flashable
 - Windows™ based diagnostics via CAN, using CADET software
- Connectors:
 - 2 Delphi Metripak GT280, 12 pins
 - 1 Micro Pack 100W, 24 pins
 - 1 Deutsch DT, 6 Pins
- Overall Dimensions: 115mm x 241mm x 57 mm (4½" x 9½" x 2¼")

* Windows is a trademark of Microsoft, Inc.

AT A GLANCE:

- 8 Configurable inputs
- 2 High-side 15A solid state outputs
- 7 High-side 10A solid state outputs
- 7 High-side 7A solid state outputs
- 4 High-side 2.5A outputs
- 5 High-side 250ma relay driver
- 1 CAN bus
- 1 LIN bus
- DCSM's can be combined in a master /slave configuration based on I/O requirements
- Power Mosfets with thermal shutdown protection
- PWM outputs up to 500 Hz for speed control or soft-start of inductive loads on 8 outputs
- Integrated overload fuse
- Field flashable Flash and EEPROM memory