



# CAPACITIVE DISCHARGE INITIATOR (CDI) MODULE

*DESIGNED FOR MISSION CRITICAL APPLICATIONS*

INVOCON, INC.

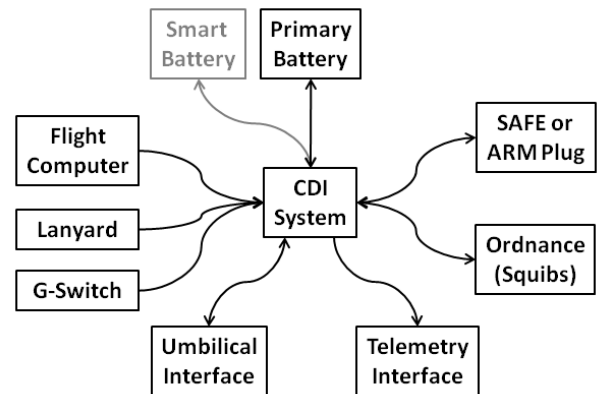
TECHNOLOGY PROFILE 0914

Invocon's Capacitive Discharge Initiator (CDI) Module provides missile control and monitoring capabilities in a single compact unit. It enables safe operation and monitoring of ordnance.

The CDI provides four fully redundant output channels, a single input trigger for starting the timer, 1 ms resolution per channel, and four hours of run-time after the input trigger.

Other features include:

- CDI capacitor voltage monitoring
- Command trigger function on all channels
- CDI event monitoring
- Health and status monitoring
  - Altitude Switches (open/close)
  - SAFE/ARM plug identification
  - SAFE/ARM state identification
- Single power supply source voltage
- Bad umbilical pull protection
- Smart primary and rechargeable battery support
- Software development kit, improved programming, and application software



### Specifications for P/N: IVC4081000-301

|                           |   |
|---------------------------|---|
| <u>Electrical</u>         |   |
| Input voltage             | 27 VDC – 32 VDC   |
| Connectors                | MIL-C-38999 for power<br>Standard DB-X connectors for all other functions |
| <u>Mechanical</u>         |   |
| Size (L x W x H)          | 8.93 x 8.77 x 3.16 inches (not including connectors)                      |
| Weight                    | 10.3 Lbs.   |
| Case material             | 6061 aluminum, Alodine coated   |
| <u>Environmental</u>      |   |
| Operating Temperature     | -24° to 61°C  |
| Qualification Temperature | -34° to 71°C  |
| EMI Qualification         | MIL-STD-461 (200Volts/meter)  |