

# ENERGY DISTRIBUTION BOX

Smart power management for the dismounted soldier



Efficient utilization of limited power is critical for the dismounted soldier. Fully integrated with the DOMINATOR® solution, the Energy Distribution Box (EDB) is designed for smart power distribution among the various solution components. The hot-swappable EDB provides power from three different sources: rechargeable and non-rechargeable batteries, a vehicular interface unit and an AC/DC adapter.

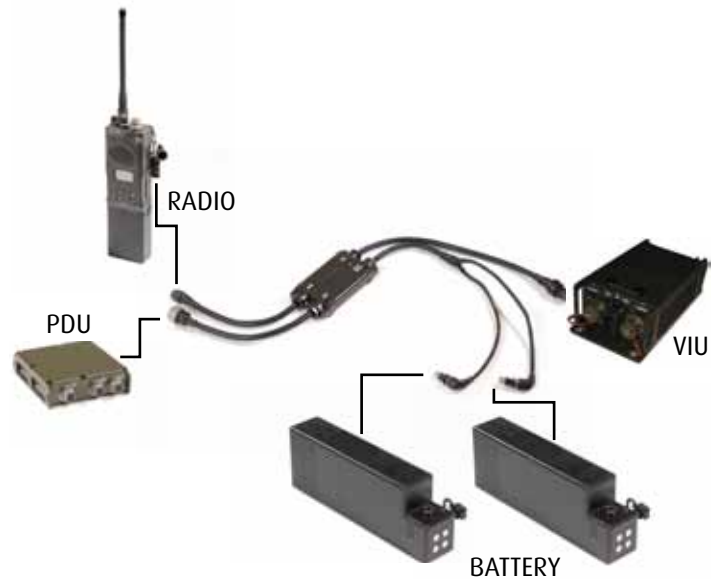
The EDB is a rugged, lightweight, portable infantry unit, designed to operate under harsh environmental conditions. The system integrates a highly efficient smart charger to the rechargeable batteries in external power mode and provides the data communications interface to the vehicular LAN.

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## Highlights

- Power distribution for the dismounted soldier
- Fully integrated with the DOMINATOR® solution
- Hot-swappable
- Smart power manages from three different sources
- Smart charging for rechargeable batteries
- Rugged, lightweight and portable



## Technical Specifications

### Interfaces

- PDU - Personal Digital Unit
- AUX - External devices e.g. GPS and Radio
- BAT1/BAT2 - Two rechargeable and/or non-rechargeable batteries
- External:
  - VIU - Vehicle Interface Unit
  - AC/DC adapter

### Power

- Maximum power dissipation (when charging): 2W
- Total output power:
  - At battery power source: according to battery performance
  - At vehicle / external power source: maximum 80W

### Protection and indications

- Output short current protection: 5A
- Over-temperature protection: >85°C
- Single LED indication: power supply fault, charging state and charging fault

### Environmental

- Operating temperature: -25° to +60 °C
- Storage temperature: -30° to +70 °C
- Compliant with MIL-STD-810G

### Electromagnetic compatibility

- Compliant with MIL-STD-461E