STORES MANAGEMENT UNIT

Stores Management Unit for control of guns, rockets, and Hellfire Missiles.

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Features:

- Supports up to 3 dual redundant 1553B multiplex busses, and 2 RS-232 serial interfaces
- Existing Weapon support: Hydra 70 series 2.75 inch rockets including numerous standard warheads, two motor types (MK40 or MK66) and a range of fuzing options, APKWS, Hellfire I and Hellfire II Missiles, GAU 19 Gatling Gun, M134 Mini Gun, DAGR, M2/M3, and HMP400
- Designed to operate and control timing of high power switching elements for gun motors and solenoids; however these high power devices are packaged separately in the WIU to allow the weight and length of the high power cables to be minimized
- Rocket attributes that can be selected include M439 airburst, M433 penetration, proximity or point detonation fuzing.
- War heads including but not limited to: H17 – 17 lb. high explosive, H10 – 10lb. high explosive, ILM – Illumination, FLC – Flechette, Multi-Purpose Sub-munitions, high explosive dual purpose, crowd suppressant gas, smoke, white phosphorus
- Rocket mode of fire – left, right, alt, pairs, with optional trigger modes as one rocket per trigger pull, long trigger pull, selectable numbers per trigger pull, or clear all
- Fuze signature generator and squib firing matrix to allow for individual selection and firing of rockets according to rocket characteristics
- Switch de-bouncing
- Optically Isolated, filtered and overvoltage protected discrete inputs to prevent any external abnormalities from damaging the SMU and to guarantee consistent and proper operation
- Extensive Built-in test (BIT) of gun, rocket, and missile system characteristics so that abnormalities can be dealt with in a safe and effective manner
- Hellfire capabilities can include automatic and manual modes, PRF codes, PIM codes, constraints and constraints override, CCM, slaving of seekers to the sensor, selection of missile by type, and customized search patterns
- Up to eight laser designation codes
- Selection of Hellfire Missile Position and the setting of trajectory to include Lock on Before Launch (LOBL), and Lock on After Launch (LOAL) high, low or direct trajectories
- Messaging (word and graphical presentation) to Soft Key Display Unit of arms inventory and status, available, latching status, ready, missile tracking, hang-fire and multiple levels of BIT results

Electrical:

- Voltage – 28VDC < 32 Watts Standby

Physical:

- Weight – 9.8 lbs.
- Dimensions - 10.75"L x 8.43"W x 4.375" H

Qualified - Environmental:
Complies with MIL-STD-810G

Qualified - Electro Magnetic Interference:
Complies with MIL-STD-461F