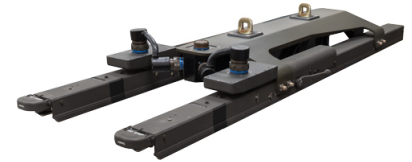


HSRL



HELLFIRE SCALABLE RAIL LAUNCHER

- Light-weight, DC only Hellfire Launcher for smaller platforms
- Supports all Hellfire II (including Romeo) and Longbow Hellfire variants
- Software upgradeable to JAGM
- Fully compliant with the M299 MIL-STD-1760 interface
- Flexible configurations including: Single-rail, Dual-rail, Triple rail, or Quad-rail
- Hellfire System enabler for future vertical lift (FVL) and other distributed solutions



DESCRIPTION

The Hellfire Scalable Rail Launcher (HSRL) is an advanced Hellfire System enabler of greater range and/or endurance due to its lighter weight. This lightweight, DC-only, scalable launcher features small, distributed electronics enabling integration of the Hellfire missile onto many platforms including the Canister-launched Hellfire (shipboard application), Light Unmanned Aircraft Systems (UAS), and other platforms that can benefit from reduced weight and DC-only operation.

FEATURES

The Hellfire Scalable Rail Launcher (HSRL) provides single- and multi-rail launch capability for the AGM-114 family of missiles without the need for external electronics or AC power. With the integrated rail electronics and M299 compatible MIL-STD-1760 interface, the HSRL can be easily integrated into smaller platforms and distributed systems such as those planned for FVL.

The scalable HSRL design allows multiple rails to be combined to create adaptable configurations based on the platform's requirements, including Single-rail, Dual-rail, Triple rail, or Quad-rail. It can support all Hellfire II (including Romeo) and Longbow Hellfire missile variants, and is software-upgradeable to support the AGM-179 Joint Air-to-Ground Missile (JAGM).

A significant weight reduction has been achieved when compared with any other solution, with a Single Rail Launcher weighing just over 15 lbs., and Dual-Rail launchers weighing only 51 lbs. This reduced weight increases range and/or duration (time on station) and also offers the ability for smaller UAS platforms to carry additional missiles.

The HSRL is DC-only and incorporates a small MIL-STD-1760 based electronics assembly called the Rail Electronics Unit (REU) which is fully compliant with the M299 MIL-STD-1760 interface.

STORES MANAGEMENT SYSTEMS

The Hellfire Interface Unit (HIU) and Hellfire Interface Assembly (HIA) are Hellfire mission computers that enable the integration of the Hellfire missile system onto existing platforms. The HIU is an aircraft line replaceable unit (LRU) that can be repackaged to meet the platform's requirements. The HIA is a Circuit Card Assembly (CCA) that can be repackaged and integrated into existing mission computers.

Both the HIU and HIA interface with the platform's main mission computer and provide all pertinent information for display on the platform's multi-function displays (MFDs). Both the HIU and HIA can interface with multiple Hellfire launchers (M299/M310 or HSRL) and support up to 16 Hellfire missiles. Additionally, the HIU/HIA can support all Hellfire missile variants and is software-upgradeable to support JAGM.

APPLICATIONS

- AGM-114 single- and multi-rail launch capability
- Hellfire II (including Romeo)
- Longbow Hellfire missile variants
- AGM-179 Joint Air-to-Ground Missile (JAGM)



HSRL



SPECIFICATIONS

COMMUNICATIONS	
Interface	MIL-STD-1760

RAIL COMPATIBILITY	
Rail	M299, MM299

POWER	
28 VDC	DC1/DC2

PHYSICAL	
Dimensions	<p>Single Rail (HSRL-1): 57.0" (L) x 4.9" (W) x 4.75" (H)</p> <p>Dual Rail (HSRL-2): 57.0" (L) x 20" (W) x 7" (H)</p> <p>Quad Rail (HSRL-4): 57.0" (L) x 20" (W) x 21" (H)</p> <p>Mission Computer (HIU): 7.0" (L) x 5.0" (W) x 4.0" (H)</p> <p>Rail Electronics Unit (REU): 8.4" (L) x 3.4" (W) x 4.2" (H)</p> <p>Note 1: Width includes Holdback Handle Note 2: Height does not include mating cable/harness assemblies Note 3: Height of HSRL-1 does not include mounting provisions</p>
Weight	<p>Single Rail (HSRL-1): 15.3 lbs.</p> <p>Dual Rail (HSRL-2): 51.0 lbs.</p> <p>Quad Rail (HSRL-4): 114.25 lbs.</p> <p>Mission Computer (HIU): 8.9 lbs.</p> <p>Rail Electronics Unit (REU): 2.5 lbs.</p>

Note: Specifications are subject to change without notice

ORDERING INFORMATION

8430-010-00	Single Rail Hellfire Launcher (HSRL-1)
8430-020-00	Dual Rail Hellfire Launcher (HSRL-2)
8430-040-00	Quad Rail Hellfire Launcher (HSRL-4)
8412-100-00	Hellfire Mission Computer (HIU)
8430-300-00	Rail Electronics Unit (REU)