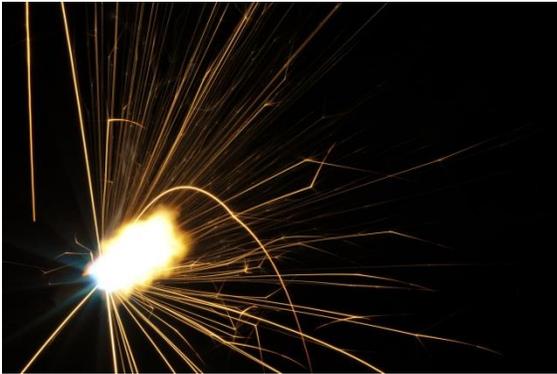




Digital Solid State Propulsion Inc.
Revolutionary Energetics for
the Next Generation



Digital Solid State Propulsion Inc. develops, produces, and markets safe, controllable energetic materials for both defense and commercial markets. Our innovative materials are environmentally friendly to produce and are used as safe, electrically-throttled propellants in thrusters, igniters, rocket motor and squib applications such as pyrotechnics. Our products are widely recognized as the world's first smart energetic materials.



Global Technology Integrators

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eSquib Technology



DSSP's eSquibs are next generation pyrotechnic devices that are electrically ignited and reusable. Unlike traditional pyrotechnics, a single eSquib can be fired hundreds of times from one power supply without any rewiring or reloading. Its ignition creates an impressive flash and loud report that effectively simulates a variety of battlefield effects, including muzzle flash, bullet impact, fire-back, and ammunition tracer signals. The per-shot cost is less than a blank round.

Key Features

- **Reusable pyrotechnic effects**
- **Electrically controlled, digitally programmable**
- **Safe and non-toxic**
- **Low hazard class (1.4S)**

Applications

- **Battlefield effects simulations**
- **Small arms training**
- **Tracer round effects**
- **Penalty systems**

GTI's Firing Systems

eSquib Firing Systems

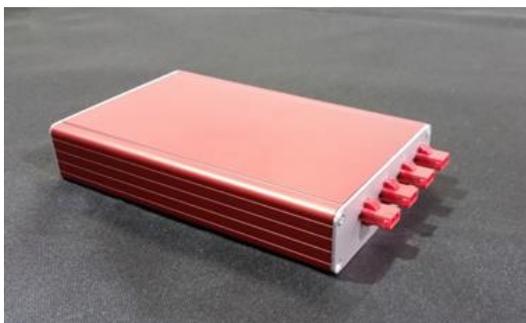
ESM-1X: Single Channel Mini Igniter



The ESM-1X or eSquib Display Module is a miniature, battery powered device designed to ignite re-usable eSquibs in a variety of applications. It can be installed easily within existing training targets and systems and even be inconspicuously under clothing. A fire rate of once per 6 seconds is possible.

An eSquib connects to the ESM-1X using a thin flexible cable that is easy to connect and conceal. Ignition triggering is controlled by a mechanical switch, which can be wired externally to the device as a dry contact input. It can also be triggered via an external voltage or current signal. The ESM-1X is powered by a rechargeable lithium-polymer battery with a capacity for thousands of ignitions.

PyroPort: Four Channel High Rate Igniter



The PyroPort is a miniature igniter designed to fire reusable eSquibs® in training exercises that require multiple channels and higher rate ignitions. Up to

four eSquibs can be fired from this device at a rate of 5 shots per second.

The user interface is intuitive and simple: a pushbutton switch can be wired from a weapon trigger, or an external firing system can send ignition cues. Operating modes are user-selectable via a DIP switch. The PyroPort accepts 12VDC power at 10 Amps, which is possible from a Lithium battery pack.

EES: 32 Channel Max Rate Igniter



The eSquib Effects System (EES) is GTI's highest performance product offering. This AC powered system can fire up to 32 eSquibs at a rate of over 10 Hz or ten shots per second. This permits very high rate effects such as automatic weapon firing and bullet hits in larger, fixed systems and targets.



