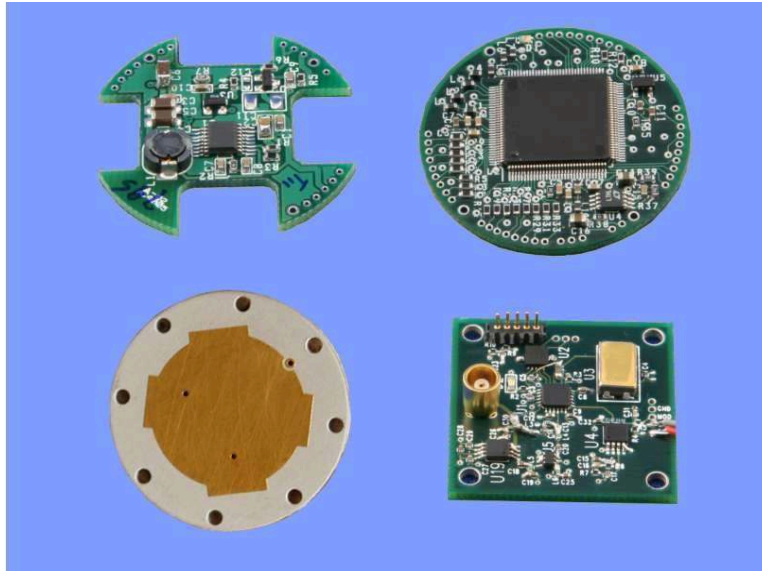




SYNTRONICS

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I-FUZE Telemetry System with I-FUZE Transmitter and S-Band Antenna

The I-FUZE Telemetry System is a compact gun launchable device for high acceleration environments. When properly packaged, it can withstand 20,000g acceleration. It has been tested to 20,000 g's. It is small enough to fit into small projectiles or standard NATO fuzes. It can record up to 16 channels of data with waveforms up to 100 volts. Users specify the voltage ranges of each channel and Syntronics will install the appropriate voltage dividers on the board for your application. An S-Band antenna is provided for transmission of data through the nose of the projectile. This system is capable of in-bore data transmission with the supplied antenna. Other antennas can be used but are not supplied.

Specifications

Power Board:	1.40" dia. x .25"
Multiplexer Board:	1.40" dia. x .10"
Transmitter Board:	1.12" x 1.12" x .25"
Antenna:	1.40" dia x .10"
Inputs:	16 (default) channels (max), 12 bits resolution each. Onboard voltage dividers allows sampling of waveforms up to 100volts.
Sampling Rate:	1,000,000 samples per channel, per second (adjustable)
Antenna:	Nose mountable antenna allows inbore measurement of gun Launch event, as well as down range tracking.
Input Power:	3.3 VDC to 5.0 VDC, nominal 600 ma required.
Actuation:	Typically activated prior to gun launch.

Available components include sensors with the following options: 3 axis accelerometer modules (Low G), 3 axis magnetometer, AO module (Low G), 1 axis accelerometer (High G), 3 axis accelerometer Module (High G), AO Module (High G). Data acquisition modules with the following: Data Logger Module or the FM transmitter module with FM antenna. Also, available is a power and control module and a special applications module that utilizes capacitive coupling to capture data that needs to be transferred between bodies spinning at different rates. These components are available individually or in any combination.

Configurable Sensors Available

- Three axis Magnetometer
- Three axis low-G Accelerometers (selectable between +/-5 Gs and +/-250 Gs)
- Three axis high-G Accelerometer (+/- 20,000 Gs)
- Low speed AO sum (spin rates up to 30Hz)
- High speed AO sum (can measure well above 300Hz)