



SOME KEY FIGURES

- › Pioneer in the development of Quartz MEMS technology utilizing a tuning-fork design
- › More than 50 years of extensive experience
- › Superior On-Time Delivery & Customer Quality Index

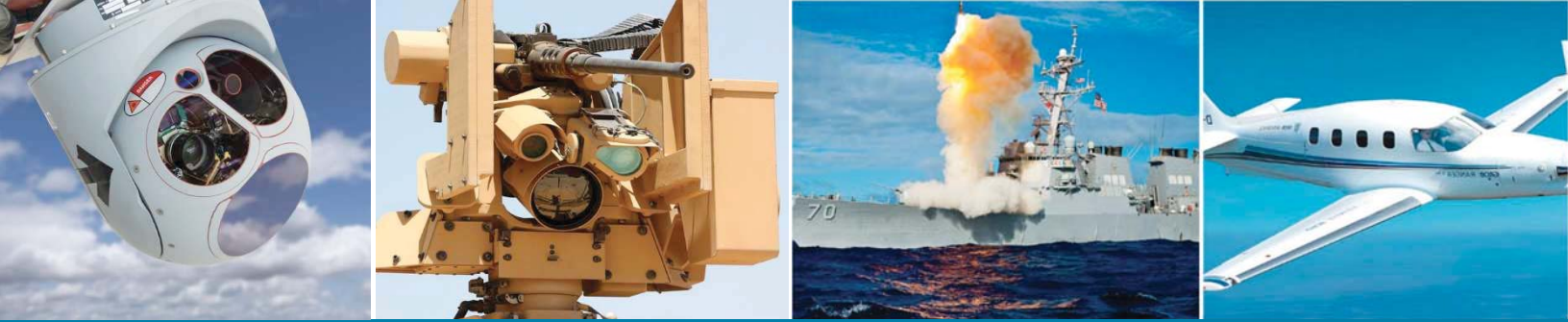
BRAND PROMISE

- › Trusted and reliable partner
- › Continuous development of leading-edge technologies yielding innovative breakthrough products
- › Unmatched performance for the price

INDUSTRY-LEADING RELIABILITY

- › High Industry-leading reliability under the most demanding conditions
- › No Known Modes of Wear-Out
- › No Moving Parts and No Friction
- › High Mean Time Between Failure (MTBF) Rating
- › No Recalibration or Rebuilding

Systron Donner Inertial (SDI) designs and manufactures the world's highest performance MEMS Inertial Sensors & Systems. Our proprietary Quartz MEMS (QMEMS) Gyroscopes, Accelerometers, Inertial Measurement Units and INS/GPS products deliver clear, continuously improving SWaPC advantages over alternative technologies. QMEMS provide precise reliable stabilization, geo-location, guidance, navigation and flight control solutions in critical commercial and defense applications worldwide.



Systron Donner Inertial (SDI) manufactures leading technologies and systems, where our gyros, multi-axis sensing systems and INS/GPS navigational, guidance and control (GN&C) systems are at work aboard a broad cross-section of applications. Many of these applications include advanced tactical and critical performance levels.

Precision integration of our advanced quartz micromachined solid-state sensors with discrete electronics and specialized GPS, digital signal processing (DSP), user-programmability and user-friendly interfaces create a cadre of designs that offer system miniaturization, low power consumption and lightweight benefits that exceed virtually every system requirement for reliable, repeatable performance.

We provide high reliability system-solution sensors for the world's most demanding applications:

- › Civil Aerospace
- › Defense
- › Industrial OEM
- › Energy & Infrastructure
- › Transportation

QUARTS MEMS ADVANTAGES

Quartz MEMS Technology covers the Inertial Sensor tactical grade market needs better than spinning mass gyros, ring laser gyros, fiber optic gyros and silicon gyros.

- | | |
|-----------------------|------------------------|
| › Smaller size | › Superior noise level |
| › Lighter weight | › Better Cost |
| › 1°/hr bias accuracy | › Long life |
| › Excellent stability | › Low operating Cost |

MAIN PRODUCT LINES

GPS/Inertial Navigation Systems:

- › Smallest Tactical Grade INS/GPS unit
- › Navigation Position - 3.9 m (SEP)
- › Heading - 1.5 mrad



INS/GPS

Inertial Measurement Unit (IMU):

- › First MEMs 1°/hr Tactical Grade IMU
- › High stability - 0.3°/hr
- › Low noise - 0.02°/√hr



IMUs

Multi-Axis Inertial Sensing System:

- › Two Axes of Angular Rate
- › Miniature Size
- › Hermetically Sealed



Multi-Axis Sensors

Gyroscopes:

- › High accuracy single axis gyro
- › Shock/vibration resistant
- › Analog or Digital interface



Gyroscopes

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