



AHEAD OF WHAT'S POSSIBLE™

MISSILES AND PRECISION MUNITIONS



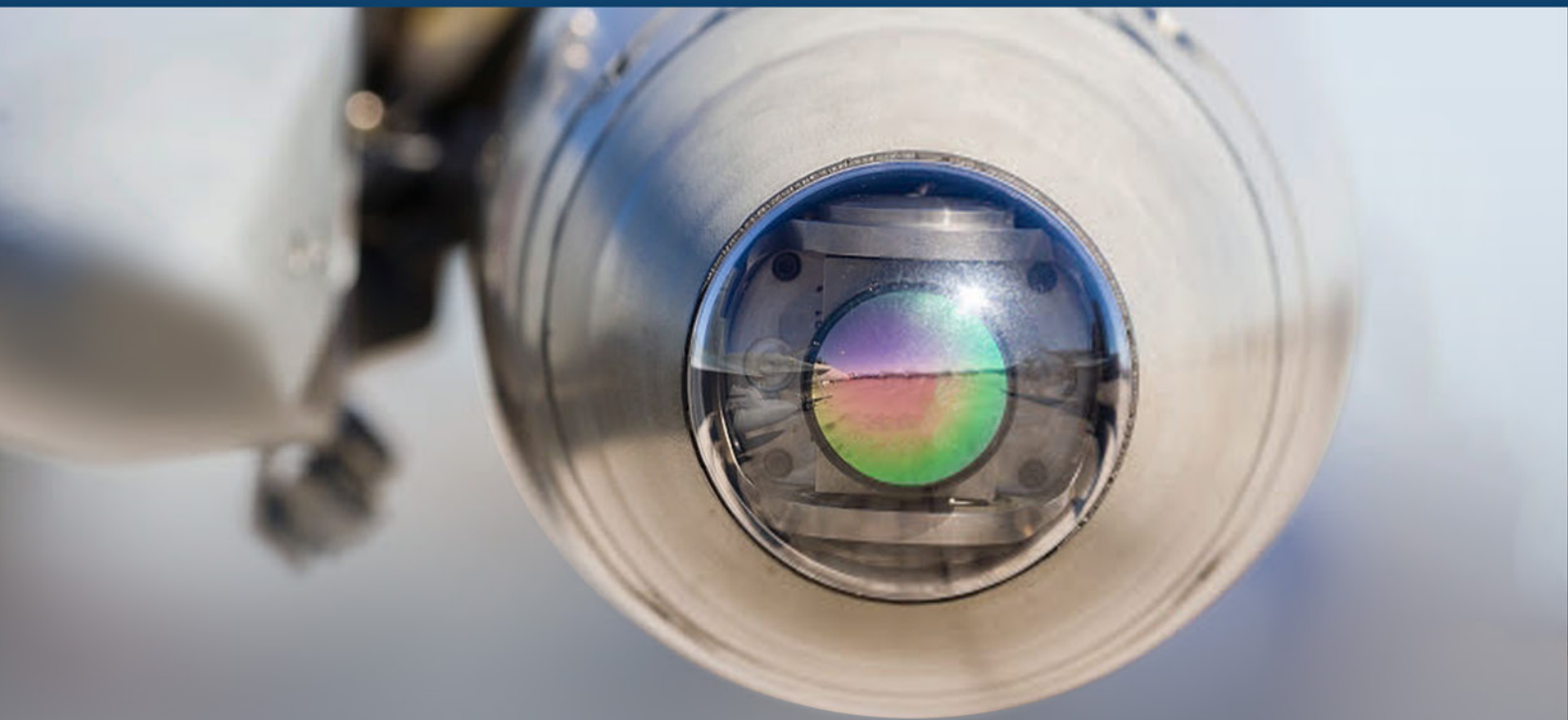
#ADlahead

THE INDUSTRY'S MOST ADVANCED ELECTRONICS SUPPORTING
LEADING-EDGE MUNITIONS.

analog.com/ADEF

Analog Devices is committed to supporting the warfighter by joining with defense industry partners to create modern high performance integrated electronics solutions for the newest generation of missiles and munitions designs, along with upgrades for existing platforms. ADI's catalog of components for missile and precision munition subsystems supports targeting systems, guidance control, fusing, ordnance stabilization, and advanced communications.

Our comprehensive experience in the missiles and munitions industry, partnered with the broadest portfolio of semiconductor products and our capability to seamlessly integrate hardware, software, and security throughout the entire signal chain, allows us to meet our customers' most critical mission requirements and continue to be Ahead of What's Possible.™



Targeting Systems

ADI supports major missile and projectile programs with targeting and seeker head solutions that allow for superior integration and size reduction, while maintaining the performance required in the modern battle space. At present, ADI is integrated into more than 45 missile systems worldwide.

- ▶ Radar illuminator and receiver core technology
- ▶ High speed/precision converters supporting target acquisition
- ▶ Fusing and precision detonation



Guidance Control

Hypersonic speeds and flight dynamics drive the precision movement of the control surfaces. Analog Devices provides precision sensing and motion systems for both control surfaces and launcher positioning.

- ▶ Precision motor/servo control for guidance
- ▶ High reliability digital signal processors
- ▶ Precision RDC/LVDT



Ordnance Stabilization

Key to any successful target prosecution is the stability and accuracy of the attitude and position of the munition. Analog Devices is the leader in MEMS-based gyroscope, accelerometer, and IMU solutions, providing systems that meet not only performance, but also the size and geometry requirements of modern munition designs.

- ▶ Tactical through navigation grade MEMS gyroscopes
- ▶ Wide range of analog and digital accelerometers
- ▶ Full inertial measurement unit (IMU) solutions (AHRS)



Surviving Extreme Environments

Analog Devices designs systems and components that survive the harshest acceleration (g force), temperature, vibration, and storage environments common to many munitions. Analog Devices manufactures modules for major missile programs and provides inertial measurement units and telemetry solutions that range from shoulder launched to hypersonic to gun launched munitions.

- ▶ Demonstrated high g survivability
- ▶ Mounting and geometry considerations
- ▶ High performance products: -55°C to $+125^{\circ}\text{C}$ and some up to 210°C
- ▶ Corrosion resistant packaging and wire bonding
- ▶ NiPdAu lead frames to mitigate tin whiskers
- ▶ Hermetically sealed packages
- ▶ Application specific system in package

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