Future Technology Trends in Aerospace and Defense

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9/24/14
ADI At-A-Glance

- Global Leader in signal processing
- Dedicated to **Breakthrough Innovations** to give you a competitive edge
- High-Value Solutions Partner for today's complex ecosystems

FY1965 - FY2013 $2.6B
ADI In India

- ADI Design Center in India Since 1995
  - 2nd largest design center in ADI
- Center of excellence for processors, DSPs, MEMS gyros, converters, ASSPs, automotive, wireless sensor networks
- 350 employees and contractors
- Serving India markets in defense, space, energy, industrial, healthcare, communications
ADi + Hittite
Signal Chain Support for the Full Frequency Spectrum

Over the Horizon Radar

L Band Naval Radar
Military Comms

Navigation systems
S Band Radar
Military SatCom

X-Band Radar
UFV Data Links
Military SatCom

Fire Control Radar

Ku Band Search & Track Radar
Military SatCom

Ka band RF Missile Seekers

Satellite imaging

W band Missile RF Seekers

Imaging Radar

Radio Frequency

Microwave

Millimeter Wave

10 kHz

6 GHz

30 GHz

110 GHz

COMBINED CAPABILITIES
Signal Processing is Critical Across A&D

Unmanned Aerial Vehicle (UAV)

- Datalink
- Avionics
- Gimbal Control
- Flight Control Systems
- Imaging
- Radar

[Image of a man communicating on a radio, an unmanned aerial vehicle, and a military radar system]
Aerospace and Defense Trends
Driving and Leveraging Technology Developments
RADAR, Military Communications, and Electronic Warfare
Space and Satellites
Avionics and Missiles
A&D Major Trend and Driver Summary

**Radar/Milcomms/EW**
- Spectral Dominance, Battlefield Intelligence, Troop Data
- Cognitive and Multifunction Systems, Software Flexibility
- RFuW, HS Converters, Software Defined Radios

**Space and Satellites**
- Increasing number of Satellite Launches
- Expand Class S Families

**Missiles and Avionics**
- GPS-Denied Environments
- SWAP SWAP SWAP SWAP SWAP SWAP
- IMUs, WSN, Packaging
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Thank You