



# Breaking the Aviation Broadband Barrier

100 Megabits per second, 100 miles

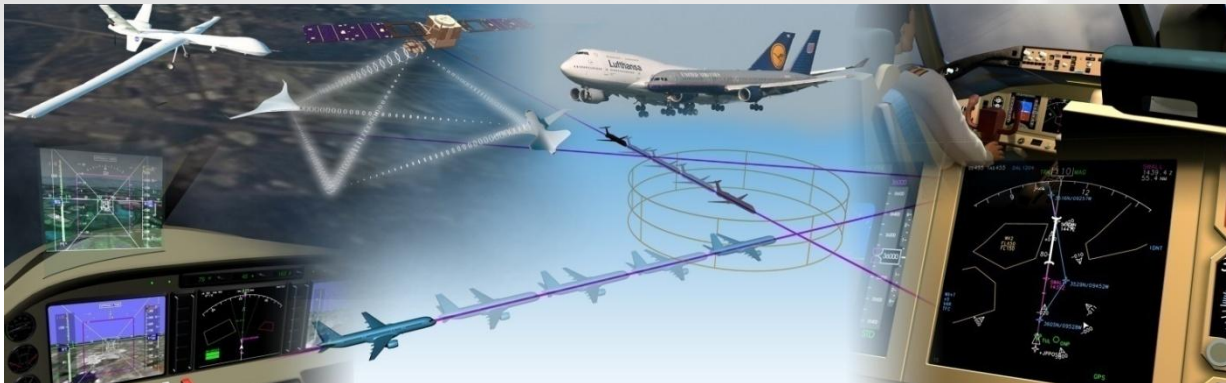


# Air-to-Ground Data Service

Global market potential:

**\$13 Billion**

- 34,000 airline aircraft worldwide - \$7.5B revenue @ \$100 per flight
- 230,000 private aircraft in U.S. alone – \$1.5B revenue @ \$50 per flight
- 90,000 military + government aircraft worldwide - \$4B revenue @ \$100



# Market Problem

Current Cellular and Satellite Technology Offer Insufficient Bandwidth for:

## Operational Data Download

- Gigabytes of flight data are accumulated for each flight but not accessible
- Real time engine trends, fuel consumption rates, parts performance variances to generate efficient repairs and cost savings
- Massive amounts of flight data is not downloaded today because cellular and satellite links are too weak or expensive

## Flight Safety Enhancement

- Real-time “black box” monitoring on the ground to prevent accidents
- Weather graphic uploads to avoid turbulence – leading cause of inflight injuries
- Inflight transmission of passenger medical emergencies to avoid costly flight diversions

## Sufficient Passenger Usage

- Unfettered Internet access for passengers to generate high advertising revenues
- High-speed Internet surfing enables higher passenger inflight purchases – to generate commissions for airlines
- Higher usage fees when passengers can do what today’s technology cannot do – large data sites, video conferencing, etc.

# Summary of Wi-SKY Technology

Validated by a major airline IT provider

**1** 100 Mbps at 100 miles to aircraft at 35,000 feet, 600 mph

**2** **50x faster than existing technology**

**3** Weighs less than  $\frac{1}{4}$  of current cellular or satellite aircraft systems

**4** Seamless handoff of data from tower to tower

**5** Requires only 125 base stations per U.S.; same for Europe

# Executive Team

Experienced Excellent Entrepreneurs

CEO

- M. Grant Sharp: 3-time startup executive, co-founder to acquisition by NASDAQ companies; small business profit turnaround specialist; CFO background; CPA, MBA

CTO

- Michael Leabman: Career-long development of leading edge radio technology, smart antennas, phased array techniques, beam forming algorithms, software-defined radios; MSEE MIT (air-to-ground radio)

VP Aviation

- Gerald Ballington: 17-year veteran engineering manager for Delta Airlines, 9 years in supply chain for Inflight Entertainment, project lead for major IFE conversion projects.

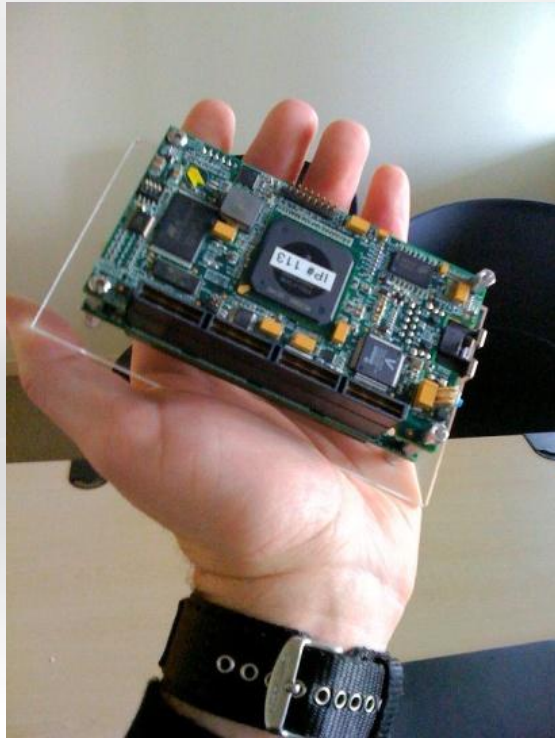
VP Radio Ops

- Steve Snyder: Logistics expert for multiple growing hardware companies, from development stage to 20,000 units per month production; radio manufacturing management experience



# Wi-SKY Proprietary Radio

Completely custom design and functionally unique



## Interior of Wi-Sky Radio

- Power converter, 4 power amplifiers
- 4 RF boards and one digital board (shown in photo)

## Exterior enclosure of radio

- Ready for certification by U.S. and German aviation regulators
- Enclosure and mounting brackets are aircraft certifiable and ruggedized

# Market Landscape

Evaluation Factor	Satellite Ku Band	Cellular 2.5 G	Wi-SKY 4.5 G
Weight - (fuel cost factor)	250 lbs	125 lbs	<30 lbs
Aerodynamic Drag - (fuel cost factor)	major	nil	nil
Installation - (plane out of service)	21 days	2 overnight stops	2 overnight stops
Cost of aircraft radio hardware	\$225K+	\$125K+	\$50K
Cost of maintenance per year	\$100K	min.	min.
Annual cost of link from ground to plane	\$100K	\$0	\$0
<b>Data throughput</b> rate per plane	1.5 Mbps	.25-2 Mbps	45 Mbps (100 Mbps in 2010)
Internet site accessibility (high volume content)	restricted	restricted	unlimited
Time to download a 2-hour movie	3 hours	3 hours	3 minutes
Signal reliability	excellent	fair	excellent



# Pro Forma

Assumes base stations financed with debt financing

Description	000 omitted	2010	2011	2012	2013
Cumulative Airline Aircraft Equipped		10	250	685	1345
Cumulative Base Stations Deployed		32	268	268	268
Revenue		\$3.9	\$61.7	\$106.1	\$219.4
Operating Expense		\$5.1	\$26.7	\$51.9	\$75.4
Pre-tax Profit		-\$1.2	\$34.9	\$54.2	\$144.0
After-tax Profit		-\$1.2	\$21.0	\$32.5	\$86.4
Cumulative Cash Flow		-\$1.2	\$19.8	\$52.3	\$138.7



# Contact Information

For additional details on this investment opportunity

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