



GENERAL DYNAMICS
SATCOM Technologies

***Antennas for future
communication***

presented by

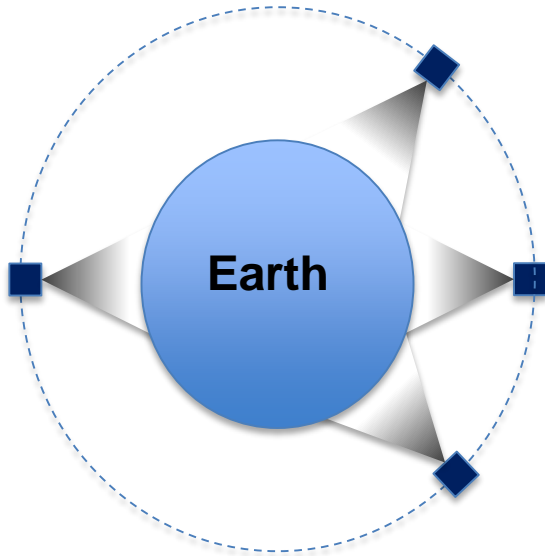
Martin Pfrommer

November 28, 2018

Ankara

This made Satellite Communication popular

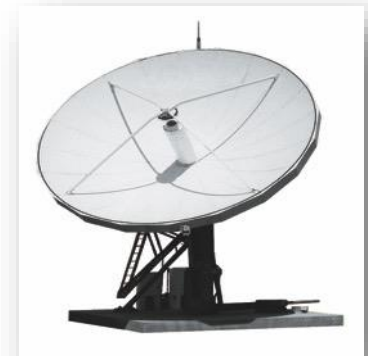
Geostationary Satellites with wide footprint



➤ **Deployable Solutions, integrated Terminals, easy to operate**



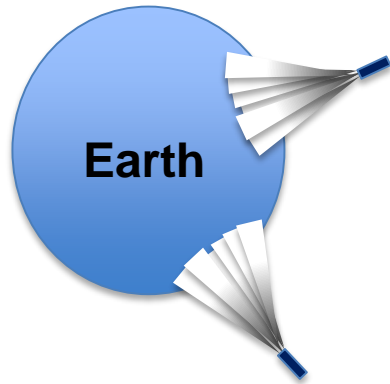
➤ **Uplink Antennas, reliable performance over many years**



GENERAL DYNAMICS
Mission Systems

Multi-Beam – multiple Frequency reuse

Enhancing the capacity for more individual users



➤ High Bandwidth User Terminals



GENERAL DYNAMICS
Mission Systems



➤ 9.2m/13m Ka-Band, the proven Gateway

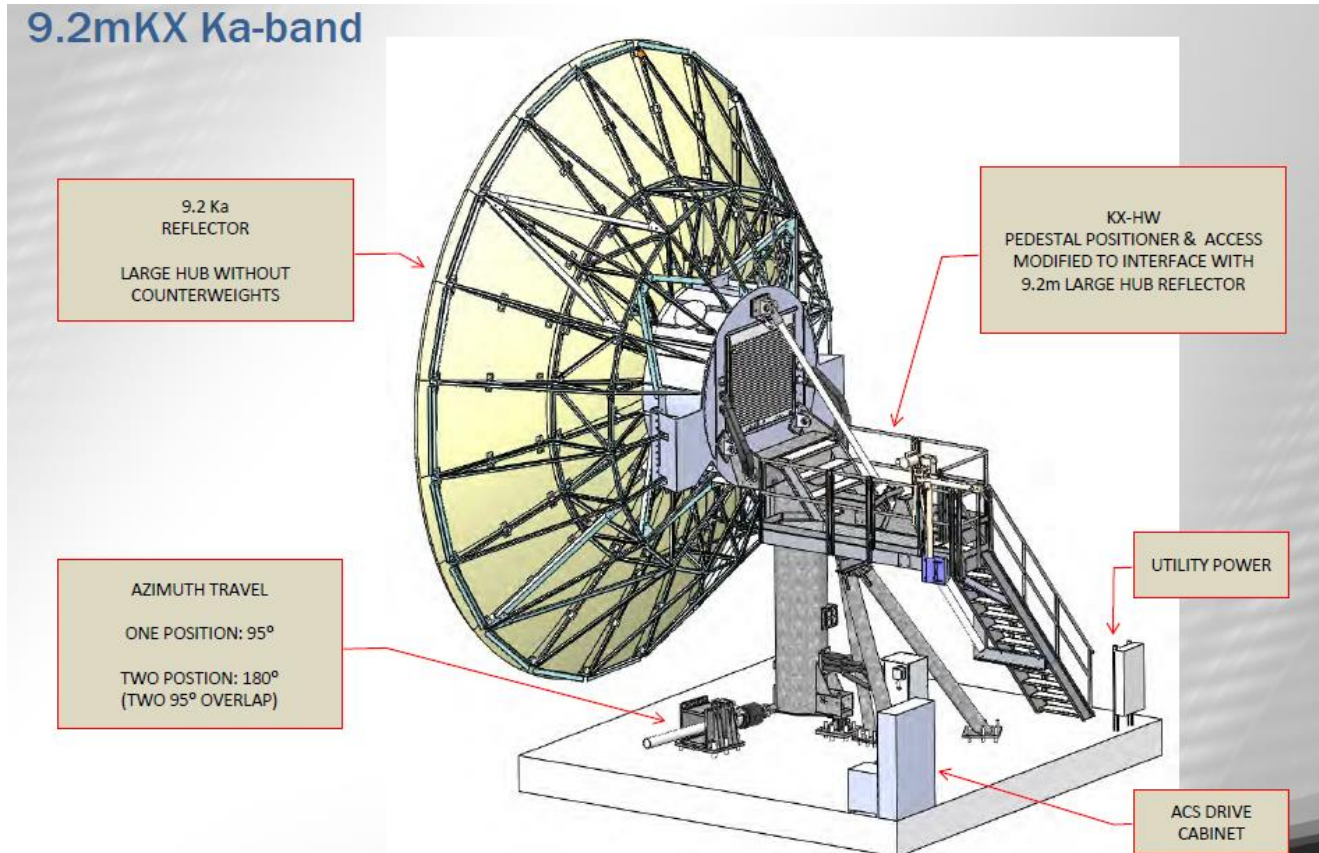
- More than 100 antennas operational
- Also available as 13m and with Q- and V-Band

Multi-Beam – multiple Frequency reuse

Enhancing the capacity for more individual users

➤ High Frequency and Bandwidth Gateway at reduced cost

9.2mKX Ka-band



3m Q/V-Band Terminal

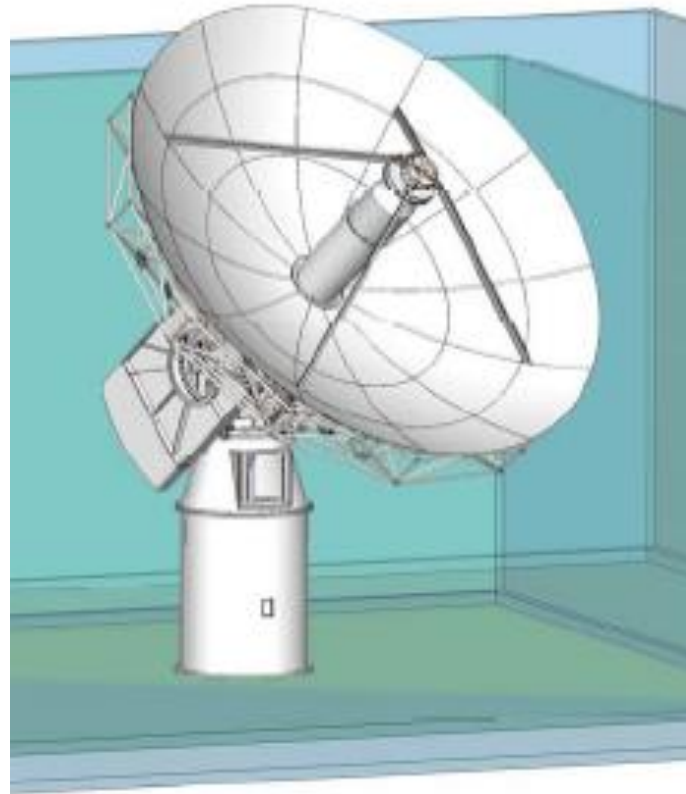
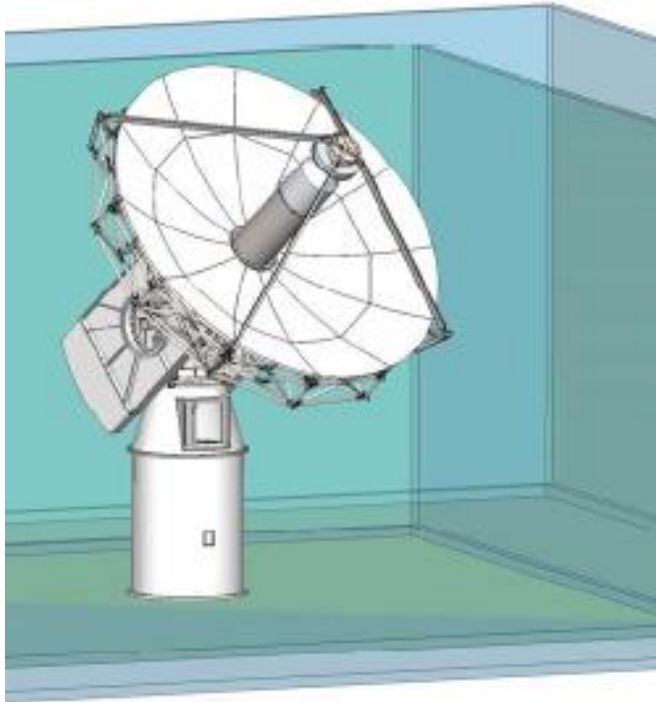
More bandwidth for geostationary Satellites for 2-way Communication

3 m Full Motion Q/V-Band Antenna in Operation since 2013 (ALFASAT)



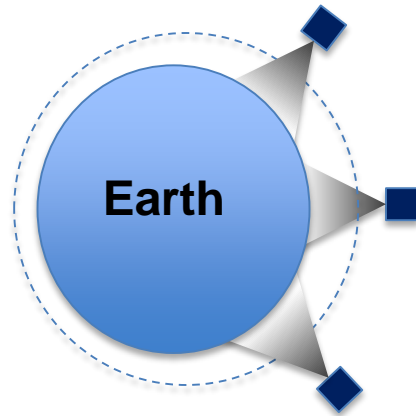
7m and 9m Q/V antennas

Readily Designed to be deployed



Reaching of underserved Regions

Medium Orbit Satellites along the Equator



➤ O3B

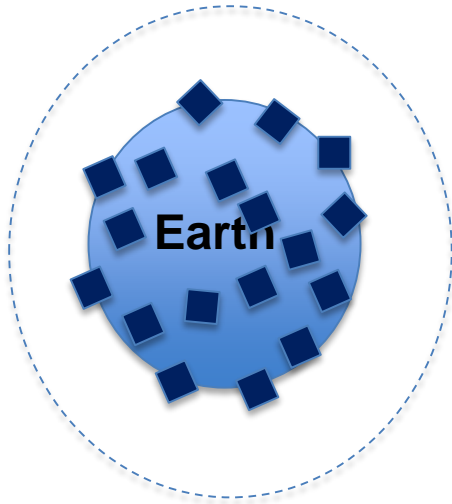


➤ 1.8m or 2.4m Ka-Band MEO Terminal

- Polarmount for simple tracking
- Two antennas on one control for seamless connectivity
- Cable Drive Mount, highly reliable and backlash free

Reaching Everywhere with scalable Bandwidth

LEO constellations requiring 3 axis or X/Y antennas



➤ 1.2m X/Y antenna for LEO

- XY Positioner with lighter PHC Reflector (7 lbs) and Ku RX Feed. Reflector Inverted.
- Prototype ACU with RF log amp and L-Band filter.

12m Beyond 1 THz.

Striving to have the best mechanical design for Scientists



Electronics

Making operation Easy



➤ **ModuMax GaN Ku up to 1100W**



➤ **Modular Block Converter 2:1**



➤ **Ka-Band LNA 17.7-21.2 GHz**



➤ **C-Band High Power LNA**



➤ **Extreme Corrosion Resistant LNA**

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24/7
CUSTOMER SUPPORT

24/7/365 CUSTOMER SUPPORT

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