

SENSE DEEP EXTEND NETWORKS PERSIST FOR MONTHS

High Altitude Platform System (HAPS)

**AIRBUS** 

**U.S. SPACE & DEFENSE** 

## Why U.S. Zephyr is Different



- Proven in the Stratosphere: 64 Days & 30,000 NM travelled in a single flight;+150 days total in the stratosphere
- Precise Maneuverability & Agility enables operations in complex international airspace without risk of unintended drift into adversary-controlled airspace
- Closest HAPS to Operational Capability
- Over 10 x Zephyr 8B models produced; Improved Zephyr 8C production model planned for late '24
- Affordable, Attritable vs. other larger HAPS options
- U.S. Based Zephyr Program with cleared HAPS professionals to support sensitive global USG / DoD missions

## Specifications

- Dimensions: 82' wingspan; 165 lbs
- **Endurance:** Current = 64 Days (Goal: Up to 180 Days)
- Operational Altitude: Between 60,000 ft 75,000ft
- Technology Readiness Level (TRL): 7
- System Content: +60% U.S. components
- Availability: On contract supporting U.S. DoD now; planning '24 & '25 flights now; payload integration available now



## Defense Missions

Persistence Missions	Competition	Crisis	Conflict
Deep Sensing	Х	X	×
Long-Range Targeting			Х
Indications & Warning	Х	Х	Х
Network Extension & Comms Relay	Х	Х	Х
Battle Damage Assessment			Х
Assured Positioning, Navigation & Timing (APNT)	Х	Х	х

## **Enabling Zephyr Payloads**

Electronic Support (ES)	Ready to fly in 2023	
Electro Optical & Infrared (EO/IR)	Demonstrated & Planned	
Synthetic Aperture Radar (SAR)	Produced and Planned	
Signals Intelligence (SIGINT)	Planned	
Electronic Intelligence (ELINT)	Planned	
Assured Position, Navigation & Timing (APNT)	Planned	
Various Communications & Network: 5G, Link 16, MESH, Optical Communications, etc.	Demonstrated & Planned	

