



STRATOSPHERIC PAYLOAD CAPABILITIES

VIEWING THE HORIZON FROM THE STRATOSPHERE

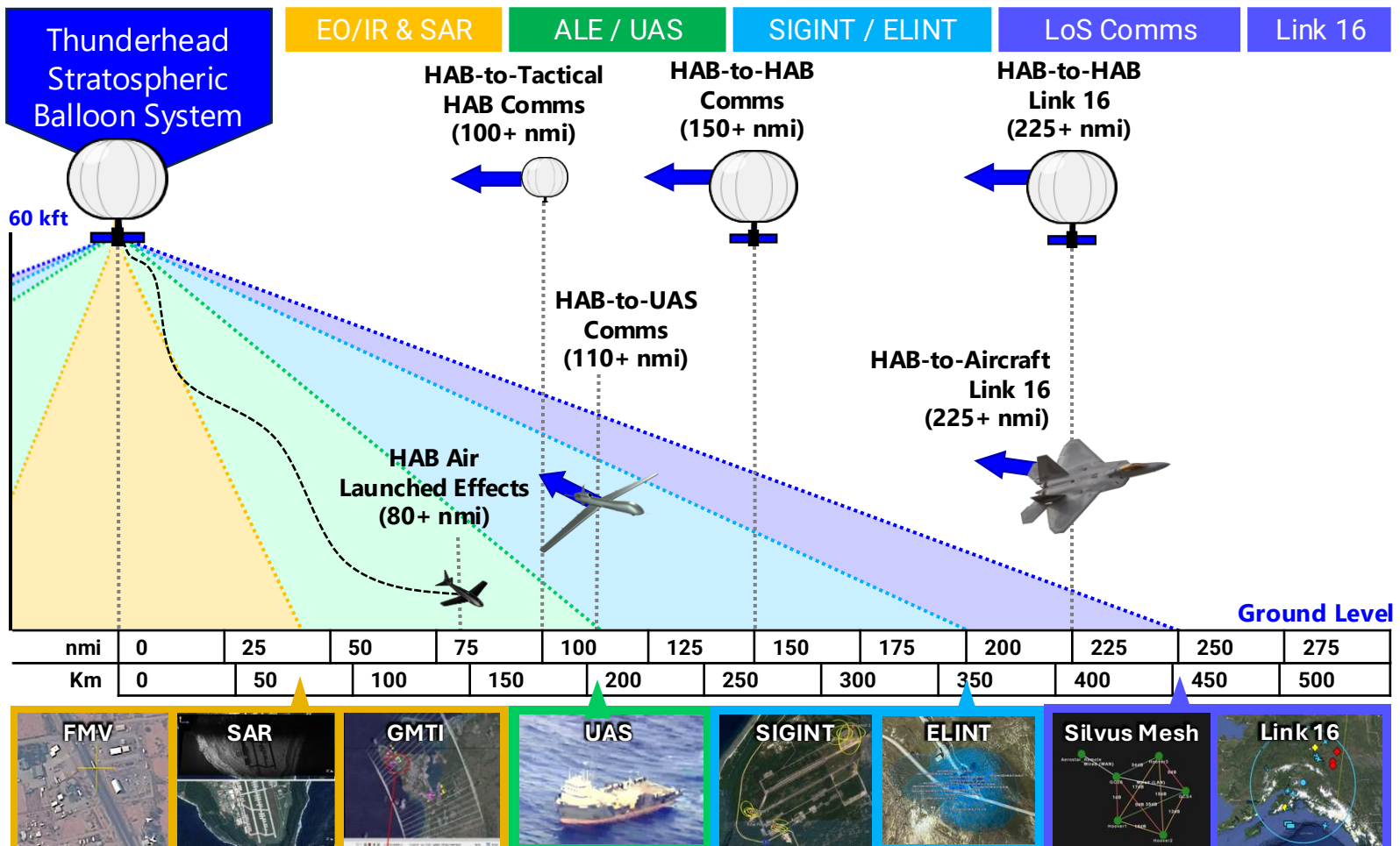
Demonstrated Payloads

Aerostar has integrated and flown 100+ payload packages for stratospheric operations over the last ten years, including SIGINT, SATCOM, SAR, EO/IR, hyperspectral, FMV, air-launched effects, secure comms and comms relays. At 60,000 ft, the functional range of these sensors extends beyond terrestrial or typical fixed-wing limits and often all the way to or beyond the horizon in a truly beyond-line-of-sight (BLoS) mission set.

Combining Effects

As standalone effects, stratospheric payloads offer wide-areas impact and awareness. However, when combined in Multi-INT packages on the same HAB platform or combined across multiple HABs in a cooperative constellation, overwhelming persistence and overlapping effects make HABs a dominant mission capability. Able to execute tip-and-queuing across payloads and platforms, HABs can complete the Find-Fix-Finish sequence without support. Providing complete Blue Force coherency, HABs can operate and relay multiple radios, networks, and signals enabling multi-level common operating pictures.

PAYLOAD CAPABILITY	NMI	KM
LoS Comms Downlink	250+	463+
Secure Comms Relay	225+	417+
Secure Comms Downlink	225+	417+
SIGINT Collect	200+	370+
LoS Comms HAB Relay	150+	278+
SIGINT Collect	150+	278+
EW GEO Collect	120+	222+
UAS LoS C2 Backhaul	110+	204+
Air Launched Effects (ALE)	80+	148+
SAR/GMTI Collect	35	65+
EO Collection (Gimbaled)	30+	56+
EO/IR FMV (Gimbaled)	15+	28+



For more than 65 years, Aerostar has designed, manufactured, and integrated systems that solve challenges in Aerospace & Defense. From engineering services, design, and development to highly-technical products and support, we offer tailored turnkey solutions for a multitude of missions.



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