SlimSDR *Software Defined Radar*

COMPACT. POWERFUL. VERSATILE.

SlimSDR: Scalable Multi-Function RF (MFRF) System

SlimSDR is a multi-function, multi-mode RF system offering multi-frequency operation in a compact, scalable architecture. It has been flight-tested in high-vibration environments and at high altitudes.



Small enough to fit in a lunchbox!

11.7 lbs
110 W Max
+28 VDC

From the ground to the stratosphere!

One Core – Multiple Configurations

SlimSDR integrates with a variety of antennas - horns, microstrip arrays, phased arrays and AESAs. Multi-channel T/R configurations, scalable SSPAs, and mission-specific processing support the platform, altitude, frequency, and payload constraints of each mission.

Frequencies	Altitude	Multi-Channel	TRL	Made in USA
UHF, L, S, C, X, Ka, Ku	Flown up to 65,000 ft, capable of higher		7	

SAR
Stripmap, Spotlight, Wide Area, CCD

MTI
AMTI, DMTI, GMTI, MMTI

High Gain ESM/EW/SIGINT
Signal Intelligence (SIGINT), Electronic Warfare (EW), Direction Finding (DF), Spectrum Monitoring

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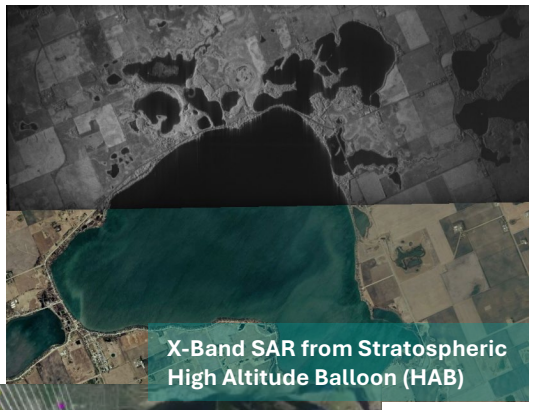
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Imagery



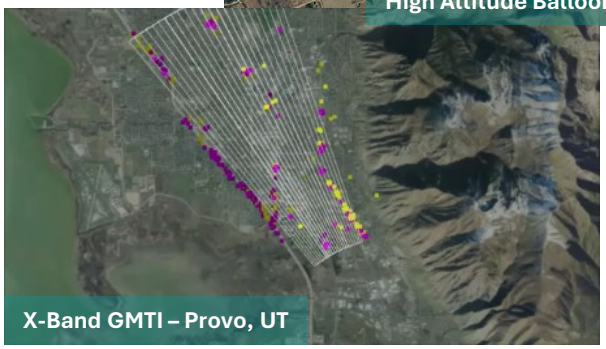
X-Band, 1ft resolution



X-Band SAR from Stratospheric High Altitude Balloon (HAB)



X-Band, Maritime Target Detection, 0.3m resolution



X-Band GMTI – Provo, UT

Key Performance Specifications

Size	*5.2 x 8.9 x 7.8 in (13.2 x 22.6 x 19.8 cm)*
Weight	*11.7 lbs (5.3 kg)*
Power	*110 W Max, +28 VDC*
Frequencies	*UHF, L, S, C, X, Ka, Ku*
Altitude	*Flown up to 65,000 ft, capable of higher*
Modes	*SAR, MTI, High Gain ESM, EW, SIGINT, DF*
Data Products	*KML, PNG, NITF, STANAG 4607*
TRL	*7*

End-To-End Integration

Beyond advanced radar hardware, ARTEMIS provides end-to-end integration and installation services for UAS, manned aircraft, stratospheric balloons, and ground vehicles. Our engineers manage mechanical mounting, gimbal stabilization, RF cabling, thermal management, and power distribution - ensuring seamless integration and mission readiness.

Heritage

Founded in 2000, ARTEMIS brings more than two decades of experience developing mission-critical radar hardware and subsystems for airborne, spaceborne, and stratospheric applications. Our heritage includes contributions to Global Hawk, ASARS-2A, ASTOR, NASA JPL remote-sensing programs, satellite missions, and numerous high-altitude balloon flights - providing the proven engineering foundation behind SlimSDR.

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