

RANGR 1090 ADS-B

THE FOUNDATION OF A COMPREHENSIVE,
LONG-TERM ADS-B SOLUTION

Building on systems engineering and integration know-how, FreeFlight Systems effectively implements comprehensive, high-integrity avionics solutions. We are focused on the practical application of NextGen technology to real-world operational needs — OEM, retrofit, platform or infrastructure.

FreeFlight Systems is a community of respected innovators in technologies of positioning, state-sensing, air traffic management datalinks — including rule-compliant ADS-B systems, data and flight management. An international brand, FreeFlight Systems is a trusted partner as well as a direct-source provider through an established network of relationships.



3 GENERATIONS OF EXPERIENCE BEHIND NEXTGEN AVIONICS

NEXTGEN LEADER. INDUSTRY EXPERT. TRUSTED PARTNER.

SHAPE THE SKIES.





RANGR 1090 ADS-B TRANSPONDER

For aircraft operating above 18,000 feet or outside the United States, the FreeFlight RANGR 1090 ADSB Out transponder is a high-performance, modular 1090ES Mode S transponder that is ADS-B Out compliant when paired with a certified SBAS/GNSS solution.

1090 ADS-B TRANSPONDER

SPECIFICATIONS		
Model	FDL-1090-TX	
Capabilities	TSO Certified for Mode S/ES ADS-B Out compliance	
Link Frequency	1090 MHz	
CERTIFICATIONS		
System	TSO-C112c (Class 1) TSO-C166b (Class B1S) ETSO-C112c (Class 1) ETSO-C112a (Class B0) FAA-PMA	
Design Assurance	DO-1788 Level C (ED-128) DO-254 Level C	
Service Ceiling	30,000 ft.	
PHYSICAL CHARATERISTICS		
Size	1.9" H 2.6" W 6.2" D	
Weight	Less than 1 pound	

TC1090 CONTROL HEAD	
TSO Compliance	TSO-C88b
ETSO Compliance	ETSO-88a
Software	DO-178B Level B
Physical Dimenstions	2.5" W 2.0" D 1.8"H
Panel cut-out	Standard 2.25 inch (round adapters provided)
Weight	0.1 lbs. (0.05 kg)
Altitude	35,000 ft.
Power Requirements	5.5 - 10 VDC, provided by FDL-1090 unit

The RANGR 1090-TX is one of the smallest Mode S transponders suited for GA aircraft; the system weighs less than one pound including the compact panel-mounted controller and built-in altitude encoder. The controller's intuitive controls feature positive control knobs and push buttons for squawk codes, IDENT, VFR and for viewing ADS-B position data on the sunlight-readable, backlit LED display.

Starting at \$4,495, the RANGR 1090-TX is available alone or can be configured with FreeFlight Systems' certified 1201 WAAS/GPS for complete ADS-B Out compliance. This remote transponder is dual-install capable, and may be mounted anywhere within the airframe.

To enable ADS-B In weather and traffic, the RANGR 1090-TX can be expanded with the FreeFlight TSO-certified RANGR RX datalink receiver, which is compatible with MFDs and tablets for display.

For additional product information and specifications, please contact our Sales Team at +1.254.662.0000



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