European Union Aviation Safety Agency

FAQ n.141890

FAQs:

Technical Aspects and Interoperability , Automatic Dependent Surveillance — Light (ADS-L)

Question:

How does ADS-L transmission power compare to traditional ADS-B, and what does that mean for range?

Answer:

ADS-L transmission power is limited to 14 dBm (25 mW ERP) in the M-band and 27 dBm (500 mW) in the O-band, as per the SRD860 spectrum regulations. While the transmission power is lower than traditional ADS-B, ADS-L can still achieve air-to-air ranges of over 10 km, making it suitable for its intended use. The range of ADS-L is highly dependent on installation, and following best practices can help achieve optimal performance.

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Link:

https://www.easa.europa.eu/en/faq/141890