

VEHICLE MOVEMENT AREA TRANSPONDER (VMAT)

FAA Certified, Magnetically Mounted & Portable

Designed for airport ground vehicles operating in aircraft movement areas, INDMEX's Dual Band 978 MHz ADS-B (UAT) and 4G/LTE Vehicle Movement Area Transponder (VMAT) provides position reporting that is accurate down to meters in real time. This externally mounted system provides critical information that air traffic controllers require to increase safety in active movement areas and improves resource management for airports and emergency responders.

The ADS-B aviation-certified internal WAAS/GPS sensor provides the ability to collect position, velocity and time. The system transmits data from the VMAT unit to ASDE-X, ASSC, INDMEX's dual band ADSB receiver once per second, allowing positive identification of the vehicles location in real-time. The system utilizes robust Universal Access Transceiver (UAT) technology, and is fully compatible with the FAA NextGen ADS-B program, ensuring seamless integration with existing traffic control support systems and operations management platforms.

Utilizing an internally stored map of the airport control area, the system can be configured to either transmit over the FAA's 978Mhz frequency or optionally through a 4G/LTE connection, allowing for airports and airlines to track their vehicles in any part of the airport, not only the aircraft movement area.

The system is externally mounted, no drilling holes or antenna mounts required, and can be easily swapped out without the need for installation changes.



Technical Specifications

Model	FDL-978-GTX/A
Equipment Type	Ground Vehicle Universal Access Transceiver (UAT)
Link Frequency	978 MHz (optional 4G/LTE)
Transmitter Power	20 watts max at antenna
Transmit Antenna	UAT/DME antenna TSO-C66c, TSO-C74c TSO-C112 compliant
GPS/SBAS Antenna	TSO-C114 compliant
On-Board Map	Multi-Polygon, 6,000 points max
Input Power	10-40VDC Typical 0.3A @ VDC

Dimensions

Size	7.8" H 8.0" W 13.1" D
Weight	3.6 lbs
Operating Temp	-40F to 158F

Certifications

FAA	FAA AC 150/5220-26 - Change 2 Fully Complies
FCC	FCC Certified for 4G/LTE
TSO Compliance	TSO-C154c (A15) TSO-C157a (Class 1) TSO-C195b (Class C1) TSO-C145c (Beta 1)
Environmental	DO-160G
Software	RTCA/DO-178B Level C
Hardware	RTCA/DO-254 Level C

System Compatibility

FAA Surveillance Technology	ASDE-X / ASSC
INDMEX Receivers	DBADSBRX (1090/978Mhz)
INDMEX In-Vehicle Systems	AirBOSS Web Portal OpsBOSS RIWS SnowBOSS Snow Removal