

RANGR LITE UNIVERSAL ACCESS TRANSCEIVER (UAT) ADS-B DATALINK SYSTEM

A summary of the RANGR Lite products and their capabilities is in the table below.

	RANGR TXL	RANGR XVRL
Model	FDL-978-TXL Transmitter includes internal WAAS/GPS sensor	FDL-978-XVRL Transceiver includes internal WAAS/GPS sensor
Capabilities	TSO Rule Compliant ADS-B Out	TSO Rule Compliant ADS-B In/Out
Link Frequency	978 MHz	978 MHz
Display Options	N/A	WiFi to Compatible Tablets

WIFI MODULE INCLUDED WITH XVRL
INCLUDES ANTENNAS AND INSTALLATION KITS

CERTIFICATIONS

System	TSO-C154c (UAT) TSO-C145c (GNSS)	TSO-C157a (FIS-B) TSO-C195a (TIS-B/Traffic) TSO-C154c (UAT) TSO-C145c (GNSS)
Design Assurance	DO-160G DO-178B Level C DO-254 Level C SW/HW	DO-160G DO-178B Level C DO-254 Level C SW/HW
Installation Approvals	STC approved in accordance with AC 20-165A, AC 20-172A	

PHYSICAL CHARACTERISTICS

(Includes RANGR TXL, RANGR XVRL models)

Size (Includes Mounting Flanges)	1.7" H 5.0" W 5.8" D
Weight	Less than 1 pound
Transponder Interface	Mode A/C Mode S
Interface	4 RS-232/422 1 RS-485 4 Discrete Inputs 2 Discrete Outputs
Input Voltage	10–40 VDC
Input Current (Max)	0.2 A at 12 VDC

SERIAL-WIFI TRANSCEIVER

Certifications	PMA
FCC Identification	T9JRN171-1
Physical Dimensions	1.0" H 3.1" W 4.0" D
Weight	2.9 oz (82.5 g)
Operating Temp	-40°C to +70°C
Storage Temp	-55°C to +85°C
Power Requirements	10–37 VDC, 40mA at 28 VDC
Frequency	2402 ~ 2480MHz
Receiver Sensitivity	-83dBm typical

TC-978 CONTROL HEAD

TSO Compliance	TSO-C154c (incomplete system) TSO-C88b
ETSO Compliance	ETSO-C88a
Physical Dimensions	1.8" H 2.5" W 2.0" D
Software	DO-178B Level B
Panel cut-out	Standard 2.25 inch (round adapters provided)
Weight	0.11 lbs. (90 g)
Altitude	35,000 ft.
Power Requirements	5.5–10 VDC, provided by FDL-978 unit