



RT-2087/ZPX-B Mode 5 Transponder

The RT-2087/ZPX-B is a complete, low-SWaP Combat ID and Air Traffic Control surveillance system designed to satisfy Identification Friend or Foe (IFF) Transponder and Automatic Dependent Surveillance - Broadcast (ADS-B) requirements for Unmanned Aircraft Systems (UAS) operating both in the battlefield and in controlled airspace. When combined with a micro-crypto applique, small and tactical UAS have available to them Mode 5 - the latest IFF encryption standard used by NATO and its allies. Options for integrated ADS-B receiver and ethernet. Included internal crypto emulator for non-classified testing and operations.



Specification	Value
Input Voltage/Power	11-33 VDC 3.5 W Continuous (NORMAL) 4 W Peak (8ms maximum)
Size	82.57 x 47 x 14.97 mm
Weight	53 grams
Operating Temp	-45° to 71° C

Transponder	
Mode 1,2,3/A,C,S MTL 1030 MHz	-76 dBm ±2 dB
Mode 5 MTL	-80 dBm
1090 MHz Transmit Power	250 W (54 dBm)

Altimeter	
Range	TSO-C88b compliant to 35,000 ft. 35,000 – 60,000 ft, ±1% max error

Control Interface	
Baudrate	57,600 bps RS-485/-232
Protocol	GDL90+
Position Interface	
Baudrate	115,200 bps RS-232
Protocol	uAvionix OEM Protocol
ADS-B Traffic Interface	
Baudrate	115,200 bps RS-232
Protocol	GDL90
KIV Interface	
AIMS 04-900(A)	Option B
Internal	Crypto Emulator
Options	
1030/1090MHz Transponder Antenna	
uAvionix truFYX TSO-C145e Position Source	
NSM Crypto Emulator	

