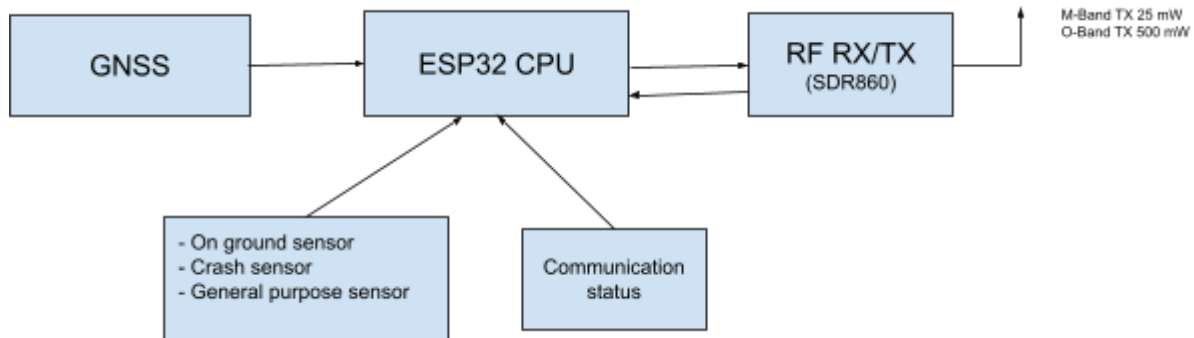


ADS-L Beacon block diagram



ADS-L Beacon features

- *iConspicuity* compatible (comply with AMC1 SERA.6005(c) as proposed in EASA NPA 2021-14)
- Operation Frequency SDR860
- Experimental device for Lab testing / operation
- *In flight* Test mode enables to play back a pre-recorded flight
- Local WiFi Debug mode enables UAV integration audit
- Autonomous operation (operation is not UAV electronics dependant)
- Flexible UAV integration
- Multi sensor integration
- Communication status integration
- Multiple GNSS systems (GPS, Galileo, GLONASS)
- High resolution GPS (WAAS / EGNOS)
- Auto managed *Flight State*
- Comm port for debug / testing
- Local WiFi for debug / testing
- Radio link encryption ready
- Lightweight device (< 100 gr)
- Ultra low power consumption

Radio specifications

Operation Frequency (SDR860)	868.2 MHz, 868.4 MHz (M-Band) 869.525 MHz (O-Band)
Channel Bandwidth	200 KHz (M-Band) 250 KHz (O-Band)
Modulation	2-GFSK
Max. Power (ERP)	14dBm / 25mW (M-Band) 27dBm / 500mW (O-Band)
Bitrate	100 kbps (M-Band) 38.4 kbps (O-Band)
Gauss Filter BT	0.5

Electrical specifications

Power supply options	USB-C (5 V) XT30 port (20 - 27 V) Li-Po autonomous battery
Test / Debug comm port	UART port / WiFi
Crash sensor interface	Digital input
On ground sensor interface	Digital input
General purpose sensor interface	Digital input
Communications status interface	Digital input

iConspicuity payload parameters

(comply with AMC1 SERA.6005(c) as proposed in EASA NPA 2021-14)

Parameter	Source / Management
Timestamp	GNSS
Flight state	UAV Flight Control / sensors / Auto Managed
Aircraft category	Config
Emergency status	Config / Digital input
Latitude	GNSS
Longitude	GNSS
Ground speed	GNSS
Altitude above WGS- 84 ellipsoid	GNSS
Vertical rate	GNSS
Ground track	GNSS
Source integrity level	Config
Design assurance	Config
Navigation integrity	GNSS
Horizontal position accuracy	GNSS
Vertical position accuracy	GNSS
Velocity accuracy	GNSS