**openAir hotspot** is a compact and versatile ADS-B receiver for mobile use or spontaneous setups.

It runs for 24h on embedded battery while serving surveillance data via Wi-Fi connection to multiple clients. The device provides raw or decoded ADS-B data on TCP/IP sockets and serves a web page showing a map with the current traffic situation.

## openAir1090 hotspot offers:

- Situational awareness on surrounding air traffic at low cost and with minimal installation effort
- ADS-B receiver with high dynamic range for monitoring of traffic in all altitudes and distances from own location
- Acts as Wi-Fi hotspot or connects into an existing wireless network
- Web application shows received traffic on a map with switchable colour settings (day/night) and detail levels
- World-wide map background data stored on internal flash memory, no connection to Internet required during operation
- Embedded GNSS receiver to indicate own location on map and to calculate distances
- Compact and high reliability, no cables, no moving parts, IP66/NEMA4 enclosure
- Advanced decoding techniques, CRC correction
- Embedded band-pass filters for optimum reception performance in difficult RF environments
- Embedded MPPT charge controller allows direct connection of solar panel for 24/7 autonomous operation









## **Technical Parameters**

Power supply		
USB	5 VDC	
Power connector	5-22 VDC	Allows connection
		of solar panel
Battery capacity	5300 mAh	Up to 24h runtime
Power consumption	<1W when battery is fully charged	
	<10W when battery is charging	
Dimonsions		
	Comm diamater 200mm total	
Enclosure dimensions	length	
Weight	500g	
	1000	[N 41 1-]
Prequency	1090	
Dynamic range	-90 (0 +10	
Antenna gain	2.1	
Reception range	100-150	
GNSS receiver		
Constellations	GPS+GLONASS L1 Band	
Sensitivity	-165dBm tracking	
Channels	33	
Network connection		
USB port	Serial interface	
Wifi	2.4GHz 802.11 BGN	
Wifi mode	Access point or client mode	
Data protocols	HTTP, TCP/IP	
Environmental		
specification		
Ambient	-20 to 60	[°C]
temperature		
Relative	<99	[%]
humidity		
Cooling	passive	

