openAir flightcase Rugged portable multitrack Receiver Solution Datasheet

openAir flightcase is a compact and rugged highperformance all-included surveillance receiver for mobile use and spontaneous setups.

It runs for 12h on battery and displays the traffic situation on the embedded touch screen panel. Various display options and alarming functions exist. The surveillance data may be distributed over Wi-Fi, LAN or LTE to a central server to local clients. ADS-B, Remote-ID and multiple surveillance protocols on 868MHz are received in parallel on integrated antennas.

openAir flightcase 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
- Receives Remote ID on Wi-Fi/Bluetooth and ADS-L, OGN, and others on 868 MHz
- Acts as Wi-Fi hotspot or connects into existing surveillance networks
- Web application shows received traffic on a map with switchable modes (day/night)
- Audible alarm for flying object entering range ring around own position or specific aircraft
- World-wide map 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 moving parts, IP67/NEMA6 enclosure, compact and light
- USB-C power connector









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Technical Parameters

Power supply		
Power socket	USB-C (Used for charging internal	18W charge speed
	battery or charging external device)	
Battery capacity	100 Wh	Up to 12h runtime
Dimensions		
Type of enclosure	IP67 rated (Peli [®] Case 1400)	NEMA 6P
Enclosure dimensions	340 x 295 x 152	[mm]
Weight	4	[kg]
1090MHz Receiver Input		
Frequency	1090	[MHz]
Dynamic range	-93 to +10	[dBm]
Reception range	250	[NM]
868MHz Receiver Input		
Glider Protocols	ADS-L, OGN, PilotAware, FANET	
Sensitivity	-110	[dBm]
Remote ID 2.4GHz		Embedded antenna
Protocols	BT4, BLE, WiFi Beacon, NAN, French	ASTM-RemoteID-
		22a
GNSS receiver		
Constellations	GPS/QZSS, GLONASS, BeiDou,	uBlox MAX-M10
	Galileo	
Sensitivity	-167dBm tracking	
Network connection		
Wi-Fi	2.4/5GHz IEEE 802.11 b/g/n/ac	
Ethernet LAN	10/100/1000 Mbps Fast Ethernet	
4G LTE	via Android tablet	
Environmental data		
Ambient temperature	-20 to 40	[°C]
Relative humidity	<99 non-condensing	[%]



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