LS telcom
Smart Spectrum Solutions

Global Spectrum Experience

Radio Monitoring

Airborne Monitoring

LS OBSERVER

Airborne Monitoring Unit (AMU) 132s

TECHNICAL DETAILS LS OBSERVER AMU 132s

RF Characteristics		
RF Characteristics	**Frequency range**	20 MHz to 32 GHz
	Max. input level	-140 dBm @ 1 GHz/ +20 dBm, 0 VDC
	Instantaneous bandwith	scan mode only

Measurement Functionalities		
Measurement Functionalities	**RF scanning**	yes
	Direction Finding (DF)	yes (AoA calculation from 360° turn)
	Geolocation	yes (triangulation of sequential DF measurements)
	Demodulation	no
	IQ recording	no

Antenna Characteristics		
Antenna characteristics	**Lower frequency range**	20 MHz to 400 MHz (loop antenna)
	Medium frequency range	400 MHz to 1300 MHz
	Higher frequency range	900 MHz to 6 GHz
	Microwave range	1 GHz to 18 GHz and 18 GHz to 32 GHz (horn antenna)

Operational Parameters of the UAS		
Operational Parameters of the UAS	**Platform**	COL-X8 multi-rotor with removable carbon arms
	Propulsion	electrical, 4x2 motors 300 kV
	Propeller size	18" x 5.5" (standard configuration)
	Max. flight height[1]	500 m, 80 m with tether kit

Powering of the UAS	Battery version	Tether supply
Typ. flight time	up to 15 minutes with 4 x 4500 mAh batteries	unlimited[2]
Power input		AC mains 120-240 VAC
Power monitoring	via telemetry	power monitoring with acoustic alarm, automatic short term LiPo Backup

Communication	Battery version	Tether supply
Aircraft control frequency	2,4 GHz	
Aircraft telemetry frequency[3]	433 MHz / 868 MHz / 900 MHz	
Live measurement data	via WiFi	via CAT-6 Ethernet cable

Environmental Parameters		
Environmental Parameters	**Temperature range**	+5° C up to +45° C
	Weight	UAS: 8,5 kg incl. payload Tether ground power converter: 25 kg
	Dimension in mm (W/H/D)	UAS 1004 x 425 x 1004 mm Tether ground power converter 560 x 455 x 265 mm

DBA

[1] depending on weather conditions and payload

[2] maximum flight time limited by other factors than powering

[3] depending on country regulation

For further information, please visit our website www.LStelcom.com or contact Info@LStelcom.com.