

Also available as a true multi-receiver unit.
Enabling parallel monitoring, geolocation & analysis.



Radio Monitoring

Fixed Monitoring

LS OBSERVER
Fixed Monitoring Unit (FMU) 318w



TECHNICAL DETAILS LS OBSERVER FMU 318w

RF Characteristics		
RF Characteristics	Frequency range	9 kHz to 18 GHz
	Scanning speed	160 GHz/s @10 kHz RBW
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth	up to 40 MHz continuous up to 160 MHz in packages of up to 2s
	Sensitivity (DANL)	-155 dBm/Hz average, depending on frequency
	Frequency accuracy	0.5 ppb (GPS disciplined)
Connectivity		
Connectivity	RF antenna input	2x N-Type, switchable
	External GPS antenna input	yes, 1x SMA
	Wired networking	1x Ethernet, RJ45
	Wireless networking	3G, 4G, 5G (EMEA only)
	Wireless local networking	opt. WiFi (802.11 b/g/n)
Features		
Features	Software¹	LS OBSERVER CMS (Central Monitoring Software)
	Spectrum Monitoring	yes
	Direction Finding (DF)²	Automatic with optional AOA1xx DF Antenna system
	TDoA Geolocation³	yes
	Demodulation	Analog audio for AM, FM, DSB, USB LSB and CW
Storage		
Storage	Storage time of raw data⁴	up to 30 days
	Storage time of statistic data⁵	up to 2 years
Environmental Parameters		
Environmental Parameters	Ruggedized	yes
	Temperature range	-30°C up to +55°C
	Power supply	10-32 VDC or 100-240 VAC 50-60 Hz with external PSU
	Power consumption	max. 150 W typ. 75 W
	Weight	27.5 kg
	Dimensions in mm (W/H/D)	370 x 522 x 210 370 x 522 x 280 with mast clamp
	Humidity (non-condensing)	up to 95 %
	Protection	IP 65
	Colour	white

¹ Requires desktop user client CMS_CL and RMU_LRC

² Requires software option RMU_DF

³ Requires software option RMU_TDOA

⁴ Depending on range and RBW, Excluding IQ data

⁵ Overview and FCO data, depending on range and time interval

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