

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



Radio Monitoring

Fixed Monitoring

LS OBSERVER
Fixed Monitoring Unit (FMU) 312n

TECHNICAL DETAILS LS OBSERVER FMU 312n

RF Characteristics		
RF Characteristics	Frequency range	100 kHz to 12.4 GHz
	Scanning speed	up to 140 MHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth	up to 240 kHz
	Frequency accuracy	1 ppm
Connectivity		
Connectivity	RF antenna input	1x N-Type opt. 4-to-1 antenna switch or diplexer
	External GPS antenna input	yes
	Wired networking	1x Gigabit-Ethernet
	Wireless networking	UMTS, LTE
	Wireless local networking	opt. WiFi (802.11 b/g/n)
Geolocation		
Geolocation	Direction Finding (DF)	yes, with optional directional antenna
	Power Difference of Arrival (PDoA)¹	yes
	Time Difference of Arrival (TDoA)	no
	GPS receiver	yes
	GPS antenna input	1x SMA, antenna included
Storage		
Storage	Storage time of raw data²	up to 30 days
	Storage time of statistic data³	up to 2 years
Environmental Parameters		
Environmental Parameters	Ruggedized	yes
	Temperature range⁴	-30°C up to +55°C
	Power supply	10-32 VDC or 100-240 VAC 50-60 Hz with external PSU
	Power consumption	max. 105 W typ. 42 W
	Weight	24.5 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
	Software	LS OBSERVER RMS (Remote Monitoring Software)

¹ Including option PDoA

² Using LS noise reduced raw data material (not IQ data)

³ Using LS statistical processed raw data

⁴ Including option pre-heating or with startup-temperature greater -10°C

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