



Radio Monitoring

Flexible Monitoring

LS OBSERVER
Small Monitoring Unit (SMU) 312n

TECHNICAL DETAILS LS OBSERVER SMU 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
	Wired	2x Gigabit-Ethernet (LAN), 1x USB 2.0
	Wireless networking	UMTS, LTE
	Wireless local networking	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	-5°C to +45°C
	Power supply	90-264 VAC 50-60 Hz or 13-25 VDC
	Power consumption	max. 22 W
	Battery runtime (typ.)⁵	2 hours (hot swap capable)
	Weight (system unit)⁶	5.30 kg
	Dimensions in mm (W/H/D)	350 x 250 x 60
	Humidity (non-condensing)	up to 95 %
	Protection	IP 54
	Colour	anthracite-gray
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 Startup-temperature greater 0°C

⁵ Dependent on battery type

⁶ Including batteries (dependent on battery type)

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