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

LS telcom
Smart Spectrum Solutions

Global Spectrum Experience

Radio Monitoring

Portable Monitoring

LS OBSERVER

Protected Portable Unit (PPU) 318w

TECHNICAL DETAILS LS OBSERVER PPU 318w

RF Characteristics

RF Characteristics		
	Frequency range	9 kHz to 18 GHz
	Scanning speed	up to 40 GHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth[1]	up to 80 MHz
	Frequency accuracy	GPS disciplined, without GPS 0.15 ppm

Connectivity

Connectivity		
	RF antenna input	2x N Type, switchable
	External GPS antenna input	yes
	Wired networking	1x Gigabit-Ethernet
	Wireless networking	UMTS, LTE, 5G (optional, EMEA only)
	Wireless local networking	WiFi (802.11 b/g/n)

Geolocation

Geolocation		
	Direction Finding (DF)	yes, with optional directional antenna or AOA 1xx DF antenna system
	Gain Ratio of Arrival (GROA+®)[2]	yes
	Time Difference of Arrival (TDoA)[3]	yes
	GPS receiver	yes
	GPS antenna input	1x SMA, antenna included

Storage

Storage		
	Storage time of raw data[4]	up to 30 days
	Storage time of statistic data[5]	up to 2 years

Environmental Parameters

Environmental Parameters		
	Ruggedized	yes
	Temperature range[6]	-30°C up to +55°C
	Power supply	12-16 VDC, 150 W AC adapter included
	Power consumption	typical 70 W, max. 115 W (while charging)
	Battery runtime[7]	typical 2.5 hours at 25°C
	Mass[8]	approximately 20 kg
	Dimensions in mm (W/H/D)	System unit 560 x 450 x 245
	Humidity (non-condensing)	up to 100 %
	Protection	IP 65
	Colour	black
	Software	LS OBSERVER CMS (Central Monitoring Software)

ECA

[1] Higher bandwith possible as customized upgrade
[2] Including option GROA+®
[3] Including option TDoA
[4] No IQ data / dependent on frequency range and RBW

[5] Using LS statistical processed raw data
[6] Startup-temperature greater -10°C
[7] Dependent on operation mode
[8] Including batteries

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