LS telcom
Smart Spectrum Solutions

Global Spectrum Experience

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	up to 40 GHz/s
	Max. input level	+16 dBm, 0 VDC
	Instantaneous bandwidth[1]	up to 40 MHz
	Frequency accuracy	GPS disciplined, without GPS 0.15 ppm

Connectivity		
Connectivity	**RF antenna input**	1x APC 3.5-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 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	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
	Software	LS OBSERVER RMS (Remote Monitoring Software)

DBA

[1] Higher bandwith possible as customized upgrade/ with AoA 1xx option in DF mode: 20 MHz max
[2] Including option GROA+®
[3] Including option TDoA
[4] Using LS noise reduced raw data material (not IQ data)
[5] Using LS statistical processed raw data
[6] 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.