

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



Radio Monitoring

Transportable Monitoring

LS OBSERVER

Transportable Monitoring Unit (TMU) 312n

TECHNICAL DETAILS LS OBSERVER TMU 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 +60°C |
| | Power supply | +15 VDC, 19 A 100-240 VAC 50 Hz |
| | Power consumption | typ. 60 W with one receiver (90 W with second receiver) charged, max. 300 W while charging |
| | Battery runtime | typical 8 hours at 25°C with one receiver, typical 5 hours at 25°C with two receivers |
| | Weight⁵ | system unit: 65.5 kg, antennas: 6.5 kg, covers: 10.5 kg |
| | Dimensions in mm (W/H/D) | system unit: 600 x 700 x 750 mm system unit + covers: 600 x 700 x 900 mm system unit + covers + antennas: 600 x 1300 x 900 mm |
| | Humidity (non-condensing) | up to 100 % |
| | Shock/Vibration | 40 g shock spectrum / 5 Hz to 150 Hz (sinus), 10 Hz to 500 Hz (random) |
| | Protection⁶ | IP 54 to IP 67 |
| | 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 -20°C

⁵ Including batteries (dependent on battery type)

⁶ IP 54 with ventilated covers (standard), IP 67 for storage with non ventilated covers and option cooling

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