



LabSat 3



LabSat 3 Wideband



LabSat Real-Time

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| Constellations | GPS L1 Galileo E1 GLONASS G1 BeiDou B1 | GPS L1, L2, L5; Galileo E1, E5a/b, E6; GLONASS L1, L2, L3; BeiDou B1, B2, B3; QZSS L1, L2, L5; IRNSS L5; In-band SBAS Further signals in the upper and lower L band can be configured with the internal webserver. Bespoke requirements like Iridium & Sirius XM radio frequencies are available on request | GPS L1 Galileo E1 GLONASS G1 BeiDou B1 |
| RF Channels | 1,2 or 3 (model dependant) | 3 | 2 |
| RF Centre Frequency | GPS L1 & Galileo E1 - 1575.420 MHz GLONASS - G1 1602.00 MHz BeiDou B1 - 1561.098 MHz | User Selectable | GPS L1 & Galileo E1 - 1575.420 MHz GLONASS G1 - 1602.00 MHz BeiDou B1 - 1561.098 MHz |
| Bandwidth | 9.66 MHz | 10 MHz, 30 MHz, 56 MHz | 16 MHz |
| Quantisation | 1 bit, 2 bit | 1 bit, 2 bit, 3 bit | 1 bit, 2 bit |
| Sample Frequency | 16.368 MHz | 10.23 MHz, 30.69 MHz, 58 MHz | 16.368 MHz |
| Removable Battery | Yes | Yes | No |
| Output Signal Level | Adjustable -73dBm to -103dBm | Adjustable -73dBm to -162dBm | Adjustable -83dBm to -107dBm |
| Reference Oscillator | Accuracy (ppm) TCXO ± 2.5 ; OCXO ± 0.3 Aging (ppm/year) TCXO ± 1 ; OCXO ± 0.3 Stability (ppm/ °C) TCXO ± 0.05 ; OCXO ± 0.05 | Temperature Stability (ppm) TCXO ± 0.05 ; OCXO ± 0.05 Frequency Stability (ppm over first year) TCXO ± 1 ; OCXO ± 0.3 | Temperature Stability TCXO ± 2.5 ppm Long Term Stability TCXO ± 1.0 ppm |
| Operating Voltage | 8 - 30 V DC | 8 - 30 V DC | 8 - 30 V DC |
| Dimensions | 167 x 128 x 43 (mm) | 167 x 128 x 46 (mm) | 170 x 128 x 46 (mm) |
| Weight | 960 g with battery (910 g without) | 1.2 kg | 750 g |