



LabSat 4



LabSat 3 Wideband



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Constellations	<p>GPS L1, L2, L5; Galileo E1, E5a/b, E6; GLONASS G1, G2, G3; BeiDou B1, B2a/b, B3; QZSS L1, L2, L5, L6; NavIC L1, L5, S-Band; SBAS L1, L5</p> <p>Further signals in the upper and lower L band as well as the S-Band can be configured with the web interface. Bespoke requirements like Iridium and Sirius XM radio frequencies are available on request.</p>	<p>GPS L1, L2, L5; Galileo E1, E5a/b, E6; GLONASS L1, L2, L3; BeiDou B1, B2, B3; QZSS L1, L2, L5; NavIC L5 & S-Band; In-band SBAS</p> <p>Further signals in the upper and lower L band as well as the S-Band can be configured with the web interface. Bespoke requirements like Iridium and Sirius XM radio frequencies are available on request.</p>	<p>GPS L1 Galileo E1 GLONASS G1 BeiDou B1</p>
RF Channels	3	3	1, 2 or 3 (model dependant)
RF Centre Frequency	User Selectable	User Selectable	<p>GPS L1 & Galileo E1 - 1575.420 MHz GLONASS G1 - 1602.00 MHz BeiDou B1 - 1561.098 MHz</p>
Bandwidth	Variable 10 - 60 MHz per channel	10 MHz, 30 MHz, 56 MHz	9.66 MHz
Quantisation	1, 2, 4, 8, 12 bits I&Q	1 bit, 2 bit, 3 bit	1 bit, 2 bit
Sample Frequency	Automatically adjusted to suit Bandwidth 10 – 61 MHz	10.23 MHz, 30.69 MHz, 58 MHz	16.368 MHz
Removable Battery	Yes	Yes	Yes
Output Signal Level	<p>-73dBm/MHz @ 0dB Variable attenuator provides between +20 dB and -69 dB of adjustment during replay</p>	<p>-73dBm/MHz @ 0dB Variable attenuator provides between +20 dB and -69 dB of adjustment during replay</p>	Adjustable -73 dBm to -103 dBm
Reference Oscillator	<p>Temperature Stability (ppm) TCXO ± 0.05; OCXO ± 0.05</p> <p>Frequency Stability (ppm over first year) TCXO ± 1; OCXO ± 0.3</p>	<p>Temperature Stability (ppm) TCXO ± 0.05; OCXO ± 0.05</p> <p>Frequency Stability (ppm over first year) TCXO ± 1; OCXO ± 0.3</p>	<p>Accuracy (ppm) TCXO ± 2.5; OCXO ± 0.3</p> <p>Aging (ppm/year) TCXO ±1; OCXO ± 0.3</p> <p>Stability (ppm/ °C) TCXO ±0.05; OCXO ± 0.05</p>
Operating Voltage	8 - 30 V DC	8 - 30 V DC	8 - 30 V DC
Dimensions	167 x 137 x 52 (mm)	167 x 128 x 46 (mm)	167 x 128 x 43 (mm)
Weight	1.45 kg with battery and SSD	1.2 kg	960 g with battery (910 g without)