



LabSat 4



LabSat 3 Wideband (Legacy)



LabSat 3

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 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/Galileo E1/SBAS L1/QZSS L1, GLONASS G1, or BeiDou B1</p>
RF Channels	3	3	1, 2 or 3 (model dependant)
RF Centre Frequency	User Selectable	User Selectable	<p>1575.420 MHz (GPS L1, Galileo E1, SBAS and QZSS)</p> <p>1602.00 MHz (GLONASS L1)</p> <p>1561.098 MHz (BeiDou B1)</p>
Bandwidth	Variable 10 - 60 MHz per channel	10 MHz, 30 MHz, 56 MHz	9.66 MHz
Quantisation	1, 2, 4, 8, or 12 bits (I&Q)	1, 2, or 3 bit (I&Q)	1 or 2 bit (I&Q)
Sample Frequency	Automatically adjusted to suit bandwidth 10 – 61 MHz	10.23 MHz, 30.69 MHz, 58 MHz	16.368 MHz
Output Signal Level	<p>-93dBm/MHz @ 0dB</p> <p>Variable attenuator provides between +20 dB and -69 dB of adjustment during replay</p>	<p>-93dBm/MHz @ 0dB</p> <p>Variable attenuator provides between +20 dB and -69 dB of adjustment during replay</p>	Adjustable -73 dBm to -103 dBm
Additional Signal Recording	2x CAN, 4x Digital, 1x RS232, 1x CAN-FD	2x CAN, 4x Digital, 1x RS232	2x CAN, RS232 or Digital (1x CAN, RS232 or Digital for single constellation variant with upgrade)
Media Storage	7.68 TB SSD	1 TB SSD	1 TB USB HDD & 32 GB SD Card
Removable Battery	Yes	Yes	Yes (for 5 of 6 versions)
Operating Voltage	8 - 30 V DC	8 - 30 V DC	8 - 30 V DC
Models/ Variants	<p>3</p> <p>LabSat 4, LabSat 4 Core, LabSat 4 Lite - each with Record & Replay or Replay Only</p>	<p>1</p> <p>Record & Replay / Replay Only</p>	<p>3</p> <p>Single, Dual & Triple Constellation, each with Record & Replay or Record Only</p>
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)