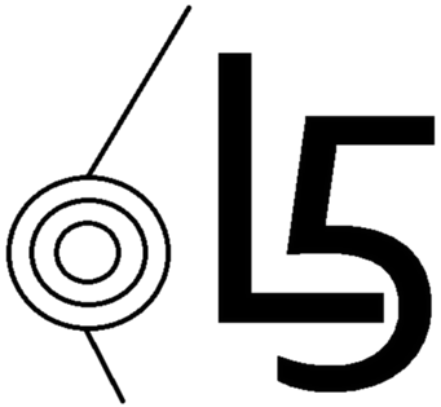


AKKI2

DUAL GNSS

U L T I M A T E
M A C H I N E
C O N T R O L
D U A L G N S S
R E C E I V E R





WHITEPAPER

L5 AKKI2 DUAL GNSS

PERFORMANCE

Channel Configuration: 220 channels

- GPS: Simultaneous L1 C/A, L2E, L2C, L5
- GLONASS: Simultaneous L1 C/A, L2 C/A, L2 P, L3 CDMA13
- SBAS: Simultaneous L1 C/A, L5 – BeiDou: B1, B2, OmniStar
- Galileo: Simultaneous L1 BOC, E5A, E5B, E5AltBOC2
- QZSS: L1 C/A, L1 SAIF, L2C, L5

1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 & 50 Hz positioning outputs

Single Baseline RTK (<30 km): 0.008 m + 1 ppm Horizontal,

0.015 m + 1 ppm Vertical

DGPS: 0.25 m + 1 ppm Horizontal, 0.50 m + 1 ppm Vertical

SBAS: 0.50 m Horizontal, 0.85 m Vertical

Static: Horizontal: 5mm+1ppm Vertical: 10mm+1ppm

Time to First Fix (TTFF)

Cold Start: <45 seconds

Warm Start: <30 seconds

Signal Re-acquisition: < 2 seconds

Velocity Accuracy: Horizontal: 0.007 m/sec, Vertical: 0.020 m/sec,

Acceleration: 11 g

Maximum Operating Limits: Velocity: 515 m/sec, Altitude: 18,000 m

Time Accuracy: 20 ns RMS

PHYSICAL AND ELECTRICAL

Dimensions: 192mm×36mm×140mm Weight: 820 g

Input voltage: DC10V ~ 30V, with polarity reverse protection

COMMUNICATION PORTS

1x Power connector (3pin M12)

1x CAN connector (4pin M12, Fully galvanic isolated 24V, 20W power supply)

1x Serial connector (8pin M12, 2x serials ports and one PPS signal)

1x ETH connector (4pin M12)

1x SIM SLOT (GPRS/EDGE)

1 x TNC (GPRS), 2x TNC (GNSS) 1 x TNC (WIFI 802.11b/g/n)

Reference outputs/inputs:

CMR, CMR+, sCMRx, RTCM 2.1, 2.2, 2.3, 3.0, 3.1, 3.2MSM

Navigation outputs: NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GPK,

GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS, Trimble GSOFF

(Binary)

CAN over TCP/IP (WiFi + Ethernet)

ENVIRONMENTAL

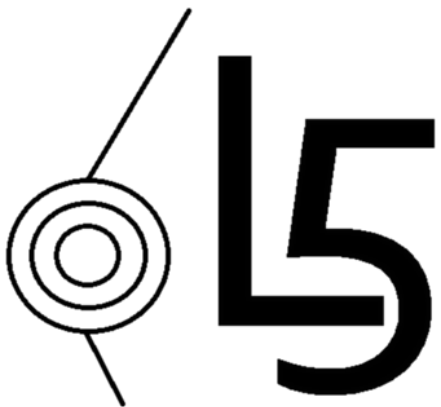
Temperature

Operating -20 °C ~ +50 °C

Storage -45 °C ~ +70 °C

Humidity: 95% non-condensing Environment protection: IP65

Designed to survive a 2 m (6.6 ft) drop onto concrete and high vibration



CONTACT US

L5 NAVIGATION SYSTEMS AB

BETONGVAGEN 11

973 45 LULEA, SWEDEN

+46 10 457 77 90

WWW.L5NAVIGATION.COM

INFO@L5NAVIGATION.COM