

GSR2650 LB

Dual Frequency GPS L-band System



GSR2650 LB Specifications

Position Accuracy¹

Single Point 1.8 m CEP (5.9 ft) 1.5 m CEP (4.9 ft) L1

L1/L2

WAAS

1.2 m CEP (3.9 ft) 11 L1/L2 O.8 m CEP (2.6 ft)

OmniSTAR

VBS 1.0 m CEP (3.3 ft) HP 14 cm CEP (0.5 ft)

RTK2 1.0 cm + 1 ppm (h)

2.0 cm + 1 ppm (v)

(0.4 in + 1 ppm (h), 0.8 in + 1 ppm (v))

Static, Rapid Static³ 0.5 cm + 1 ppm (h)

1.0 cm + 1 ppm (v)

(0.2 in + 1 ppm (h), 0.4 in + 1 ppm (v))

Kinematic, Stop-and-Go³ 1.0 cm + 1 ppm (h)

2.0 cm + 1 ppm (v)

(0.4 in + 1 ppm (h), 0.8 in + 1 ppm (v))

Velocity Accuracy¹ 0.03 m/s RMS

12 x L1 and 12 x L2 with full Channels

code and carrier

Time to First Fix

Cold Start 50 sec

Signal Reacquisition 0.5 sec L1 (typical); 6 sec L2 (typical)

Data Rates 20 Hz (position and measurement)

MERTIND LTDA.

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Acceleration 10 g

Velocity⁴ 515 m/s max

18,288 m Height

Physical Characteristics

Receiver Weight 1.1 kg (2.43 lb)

Receiver Size (l x w x h) 18 cm x 15.4 cm x 7.1 cm

(7.1 in x 6.1 in x 2.8 in)

Environmental

Operating Temperature -40° C to $+75^{\circ}$ C (-40° F to $+167^{\circ}$ F)

Storage Temperature -40° C to $+90^{\circ}$ C (-40° F to $+194^{\circ}$ F)

Humidity Not to exceed 95% non-condensing

Power Requirements

Power Input +7 to +15 Volts DC Loggin 5 W typical (operating) 2 x 2300 mAh SLA batteries Batteries

Operating Time 8 to 12 hours

External Ports 3 x RS-232 ports, 1 x power port

Standard Input/ NMEA-0183 out, RTCA, RTCM,

Output Formats CMR, PPS out, Mark In

1. Typical values. Performance specifications are subject to GPS system characteristics, U.S. DOD operational degradation, atmospheric conditions, number of satellites visible, satellite geometry (DOP), occupation time, baseline length, survey procedures, multipath effects and data quality.

2. 1 Sigma (for baselines not exceeding 10 kilometers)

3. 95% confidence level (for baselines not exceeding 10 kilometers)

4. Export licensing restricts operation to 60,000 feet maximum and 1,000 nautical miles/hour maximum.

Design and specifications are subject to change without notice

