

## **GSR2650 LB**

Dual Frequency GPS L-band System



## **GSR2650 LB Specifications**

Position Accuracy<sup>1</sup>

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

L1/L2

WAAS

OmniSTAR

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

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

Static, Rapid Static<sup>3</sup> 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-Go<sup>3</sup> 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 Accuracy<sup>1</sup> 0.03 m/s RMS

**Channels** 12 x L1 and 12 x L2 with full

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.

SANTA CRUZ (CENTRAL)

Calle Libertad No. 657

Telf. Piloto (591-3)3-36-7676

Fax: (591-3)3-33-6644 Celular: 773-97156

LA PAZ (SUCURSAL)

Av. Mariscal Santa Cruz

Edificio La Primera, Bloque "B"

Piso 7, Of. 5

Teléfono Of. (591-2)2-12-1444

Fax: (591-2)2-12-1443 Celular 715-28816 **D**ynamics

Acceleration 10 g

Velocity<sup>4</sup> 515 m/s max

Height 18,288 m

**Physical Characteristics** 

Receiver Weight 1.1 kg (2.43 lb)

Receiver Size (1 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° C (-40° F to +167° F)

Storage Temperature  $-40^{\circ}$  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)
Batteries 2 x 2300 mAh SLA 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

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,

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

multipath effects and data quality.

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

 ${\it 3.\,\,95\%\,confidence\,\,level\,\,(for\,\,baselines\,\,not\,\,exceeding\,\,10\,\,kilometers)}$ 

miles/hour maximum.

Design and specifications are subject to change without notice

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