



GPS RECEIVER **SMART 6-L**

RECEIVER AND INTEGRATED GPS/GLONASS L1/L2 BAND ANTENNA
IDEAL FOR HIGH PRECISION FARMING.

Recommended for planting, spraying, fertilizing, harvesting and soil preparation applications with auto-steer.

GENERAL INFORMATION

Scalable performance

It integrates NovAtel OEM6 receiver and Pinwheel® antenna technologies. Software upgradeable, The SMART6-L eliminates the need for costly hardware replacement which are subject to change as positioning accuracy requirements change.

Multi constellation for improved positioning

SMART6-L is able to track L1, L2 GPS + GLONASS and receive TerraStar services using L-Band, thus improving the availability of positioning under totally overcast conditions.

Dual frequency monitoring minimizes the impact of ionospheric disturbances, improving field yield. TerraStar optional services improve positioning accuracy outside the L1 SBAS coverage areas. It includes magnets to simplify mounting, but can also be securely fixed with screws.

FEATURES

- Positioning down to 20 Hz.
- Enabled for TerraStar C correction (Service contracting required).
- L1 L2 GPS, GLONASS and SBAS Bands.
- Glide-technology smooth and consistent positions for step-by-step applications.
- Multi-constellation monitoring.
- Sturdy integrated design. 120 channels.
- Radar-like output speed
- 3-5 cm pass-to-pass accuracy with correction.

(See technical features)

PRODUCT CODE

VEKSM6-TC: Receiver and integrated GPS SMART6-L antenna with cable connection to Vcom, TerraStar correction enabled.



TECHNICAL FEATURES

Channel configuration

120 channels (1)

Signals Monitoring

GPS	L1, L2, L2C
GLONASS	L1, L2
SBAS	
L-Band	

Horizontal position accuracy (RMS)⁽²⁾

Single point L1/L2	1.2 m	
TerraStar-C ⁽³⁾	5 cm	4 cm
→ RTK	1 cm + 1 ppm (RMS)	
	2.5 cm + 2 ppm (95%)	

Data Rate

Measurements up to	50 Hz
Up to 50 Hz position ⁽⁴⁾	
Data frequency	20 Hz

Output

NMEA 0183 and NovAtel ASCII and GLIDE binary smoothing algorithm

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions

155 mm diameter × 81 mm height

Weight <570 g

Connector Tyco Ampseal 14-pin

Mounting

2 × magnetic carriers

4 × M4 vise inserts

Power supply

Input voltage range + 8 to + 36 VDC

Power consumption 2.9 W (typical)⁽⁵⁾

CORRECTION SERVICES

→ TerraStar-C⁽³⁾

→ RTK ASSIST™⁽⁷⁾

COMMUNICATION PORTS⁽⁶⁾

→ RS-232 3 dedicated port

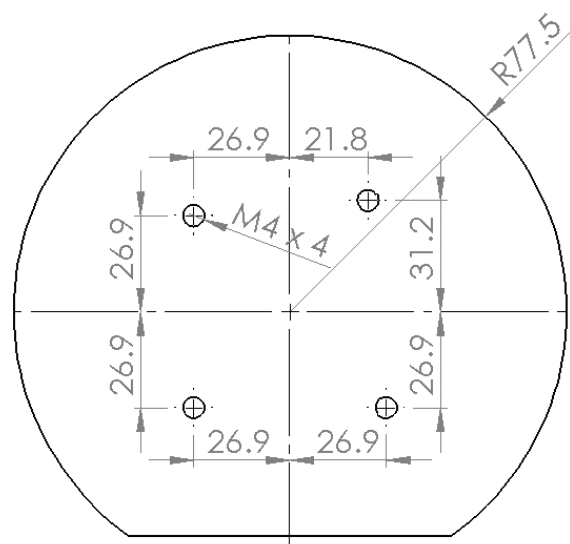
→ CAN BUS 1

→ 1 PPS 1

→ Mark of event entry 1

→ Output speed 1

MOUNTING INSERTS



GPS bottom view, measured in mm

- 1) Receives up to 60 L1/L2 satellites.
- 2) Typical values in open-air conditions. Precision performance is subject to the GNSS systems characteristics, signal degradation, ionosphere and troposphere condition, geometry of satellite distribution, multi-paths signals and the presence of intentional or unintentional sources of interference.
- 3) Requires Terrastar-c service subscription.
- 4) 50 Hz if receiving up to 20 satellites. 20 Hz if receiving 20 or more satellites or used with RTK Relay radio.
- 5) Power consumption during GPS operation only.
- 6) Standard cables only have the COM1 RS232 output.
- 7) Requires a RTK base and Relay system for correction signal reception.

ARGENTINA

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