



## ENCLOSURES

NovAtel enclosures house our high-precision Global Navigation Satellite System (GNSS) receivers.

Rugged and reliable, our enclosures deliver advanced functionality and a range of connectivity options to ensure the flexibility your unique application requires. All offer scalable positioning options ranging from centimetre-level positioning with our AdVance® RTK to exceptional sub-metre accuracy with OmniSTAR and Canada-wide Differential GPS (CDGPS) positioning. NovAtel enclosures provide our patented Pulse Aperture Correlator (PAC) technology to virtually eliminate the effects of multipath for high-quality measurements and are designed to meet the European Union's Restriction of Hazardous Substances (RoHS) Directive.

Whatever your application, NovAtel enclosures will ensure your success.

For comprehensive enclosure information, visit [www.novatel.com/products/gnss-receivers](http://www.novatel.com/products/gnss-receivers)



## PRECISE THINKING MAKES IT POSSIBLE

NovAtel is an original equipment manufacturer (OEM) that designs, manufactures and sells high-precision Global Navigation Satellite System (GNSS) technology.

Our receivers, antennas, components and subsystems are at the heart of many of the world's most exciting precise-positioning applications.

The markets we serve are wide and varied, including aviation, survey, geomatics, machine control, mining, agriculture, marine and defense. Whatever your application, NovAtel technology will ensure your success.

To learn more, visit [www.novatel.com](http://www.novatel.com)

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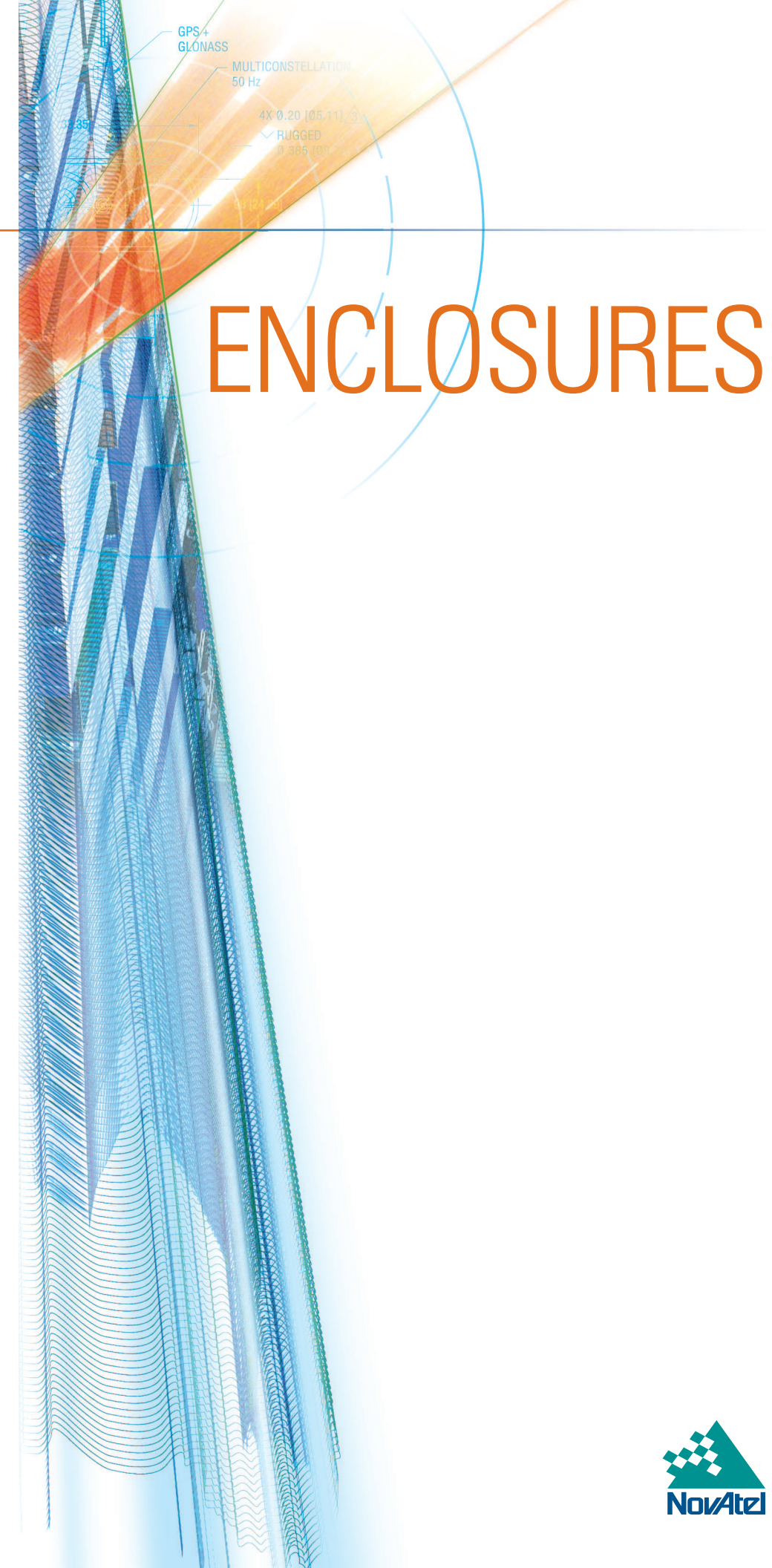
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Specifications subject to change without notice.

Refer to [www.novatel.com](http://www.novatel.com) for specification revisions

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# NovAtel Enclosures

## FlexPak-G2™ Series



**Size:** 147 x 113 x 45 mm **Weight:** 338 g (max)  
 Delivers scalable GNSS functionality to suit any application in a compact, rugged enclosure. Supporting NovAtel's OEMStar™, OEMV-1/1G™, and OEMV-2™ receivers, the FlexPak-G2 can be customized for L1-only GPS tracking for low cost applications or dual-frequency GPS+GLONASS tracking for high accuracy applications. Functional flexibility, low power consumption, and a compact form factor make the FlexPak-G2 ideal for low-payload UAV and robotics applications. High-performance RTK capabilities, comprehensive DGPS positioning modes and flexible communication options ensure high performance in any base station or rover application

### FlexPak-G2-Star™

Low cost receiver featuring excellent positioning performance and low power consumption  
**GPS L1 + GLONASS L1 + SBAS**

### FlexPak-G2-V1™

Flexible positioning modes for reliable sub-metre positioning.  
**GPS L1 + SBAS + L-band**

### FlexPak-G2-V1G™

Flexible positioning modes with GLONASS tracking capability  
**GPS L1 + GLONASS L1 + SBAS**

### FlexPak-G2-V2™

Increased signal tracking allows optimized positioning accuracy and availability in obstructed sky conditions.  
**GPS L1/L2 + SBAS**

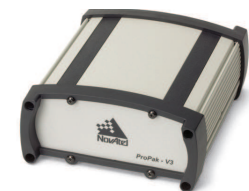
## FlexPak6™



**Size:** 147 x 113 x 45 mm **Weight:** 337 g

Tracks all current and upcoming GPS, GLONASS, Galileo and Compass signals and provides multiple communication options including Ethernet, USB and CAN bus.  
**GPS L1/L2/L5 + GLONASS L1/L2 + Galileo E1/E5a/E5b/AI/BOC + SBAS + L-band**

## ProPak-V3™



**Size:** 160 x 185 x 71 mm **Weight:** 1.0 kg

Offers the high-precision signal reception of NovAtel's OEMV-3™ receiver in a robust enclosure. Suitable for a wide variety of applications including support for NovAtel's tightly coupled SPAN™ technology to provide a stable and continuously available 3D position, velocity and attitude solution, even during periods when satellite signals are completely blocked.  
**GPS L1/L2/L5 + GLONASS L1/L2 + SBAS + L-band**

## DL-V3™



**Size:** 185 x 162 x 76 mm **Weight:** 1.3 kg

Flexible, high performance positioning with removable Compact Flash memory card makes the DL-V3 ideal for portable data-logging. USB, Ethernet and Bluetooth connectivity options provide for easy integration into any application.  
**GPS L1/L2/L5 + GLONASS L1/L2 + SBAS + L-band**

## SE



**Size:** 248 x 200 x 76 mm **Weight:** 3.4 kg

Housed in a rugged enclosure for demanding applications, the SE offers support for multiple peripherals with 4 RS-232/RS-422 configurable COM Ports, 4 event input markers, 4 configurable output strobes, Ethernet, USB Host and Device, CAN and SD card data logging. A dual-antenna version of SE is available for GNSS heading applications. The SE receiver can be connected to an IMU to create a SPAN GNSS/INS system.  
**GPS L1/L2/L5 + GLONASS L1/L2 + SBAS + L-band**

### Positioning Accuracy

	1.50 m	1.20 m	0.70 m	0.60 m	0.60 m	0.40 m	0.20 m	0.15 m	0.10 m	0.02 m + 1 ppm	0.01 m + 1 ppm
	Single Point L1	Single Point L1/L2	OmniSTAR VBS	SBAS	CDGPS	DGPS	RT-20®	OmniSTAR XP	OmniSTAR HP	RT-2 L1TE™	RT-2™
FlexPak-G2-Star™	●			●		●					
FlexPak-G2-V1™	●		●	●	●	●	●				
FlexPak-G2-V1G™	●			●		●	●			●	
FlexPak-G2-V2™	●	●		●		●	●				●
FlexPak6™	●	●	●	●	●	●	●	●	●		●
ProPak-V3™	●	●	●	●	●	●	●	●	●		●
DL-V3™	●	●	●	●	●	●	●	●	●		●
SE	●	●	●	●	●	●	●	●	●		●

### Options

	ALIGN® Heading	Integrated Dual GNSS	GLIDE®
FlexPak-G2-Star™			●
FlexPak-G2-V1™			●
FlexPak-G2-V1G™	●		●
FlexPak-G2-V2™	●		●
FlexPak6™	●		●
ProPak-V3™	●		●
DL-V3™	●		●
SE	●	●	●

### Signal Tracking

	GPS	GLONASS	Galileo	Compass	SBAS	L-band	Number of Channels
FlexPak-G2-Star™	L1	L1			●		14
FlexPak-G2-V1™	L1	L1			●	●	36
FlexPak-G2-V1G™	L1	L1			●		36
FlexPak-G2-V2™	L1, L2, L2C	L1, L2			●		72
FlexPak6™	L1, L2, L2C, L5	L1, L2	E1, E5a, E5b, AI/BOC	●	●	●	120
ProPak-V3™	L1, L2, L2C, L5	L1, L2			●	●	72
DL-V3™	L1, L2, L2C, L5	L1, L2			●	●	72
SE	L1, L2, L2C, L5	L1, L2			●	●	72

### Interfaces

	Serial Ports	USB Ports	Ethernet	CAN	Bluetooth	Memory	Maximum Data Rate	Input Voltage	Power Consumption	Receiver
FlexPak-G2-Star™	2	1					10 Hz	+7 to +18 VDC	0.6 W	OEMStar
FlexPak-G2-V1™	2	1					50 Hz	+7 to +18 VDC	1.2 W	OEMV-1
FlexPak-G2-V1G™	2	1					50 Hz	+7 to +18 VDC	1.2 W	OEMV-1G
FlexPak-G2-V2™	2	1					50 Hz	+7 to +18 VDC	2.0 W	OEMV-2
FlexPak6™	2	1	1	1			100 Hz	+6 to +36 VDC	1.8 W	OEM628
ProPak-V3™	3	1					50 Hz	+9 to +18 VDC	2.8 W	OEMV-3
DL-V3™	3	1	1		1	Removable CF	50 Hz	+9 to +28 VDC	3.5 W	OEMV-3
SE	4	2	1			Removable SD	50 Hz	+9 to +30 VDC	10 W	OEMV-3, 2 (for heading)