



Positioning Leadership



NovAtel Inc. Price List

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L1/L2 RECEIVERS



All OEM4 family receivers are available in dual-frequency or single-frequency models and feature our patented PAC™ technology. Included with each receiver are NovAtel's Windows®-based software utilities, GPSolution® and Convert™, and product manuals. Upgrades to more feature-intensive models are available via telephone, fax, or e-mail.

OEM4-G2 GPS RECEIVER OEM CARD

The OEM4-G2™ is a parallel 24-channel, dual-frequency or 12-channel, single-frequency receiver featuring an 85 mm x 125 mm (passport size) form-factor and low power consumption. All OEM4-G2 cards offer position output, real-time DGPS positioning, support for RTCA and RTCM messages, three serial ports, and a USB interface. The OEM4-G2 is configurable as a rover or base station and is designed for embedded applications or as a stand-alone unit in a ProPak-G2 enclosure. All models are available with the API (Application Program Interface) option. Add \$750 to the list price and "-API" to the part number for each receiver requiring API capabilities.

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

OEM4-G2-RT2W	..... 2 cm real-time kinematic positioning, accepts SBAS corrections ¹ , real-time DGPS, raw data output ..	\$9,495
OEM4-G2-RT2	..... 2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$8,995
OEM4-G2-L1L2W	..... Outputs RT-2® corrections, accepts SBAS corrections ¹ , real-time DGPS, raw data output	\$7,995
OEM4-G2-L1L2	..... Outputs RT-2® corrections, real-time DGPS positioning, raw data output.....	\$7,495

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

OEM4-G2-RT20W	..... 20 cm real-time kinematic positioning, accepts SBAS corrections ¹ , real-time DGPS, raw data out	\$5,495
OEM4-G2-RT20	..... 20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$4,995
OEM4-G2-3151W	..... Outputs RT-20® corrections, accepts SBAS corrections ¹ , real-time DGPS, raw data output	\$3,995
OEM4-G2-3151R	..... Outputs RT-20® corrections, real-time DGPS positioning, raw data output	\$3,495
OEM4-G2-3111R	..... Real-time DGPS positioning.....	\$1,995
OEM4-G2-WAAS ²	..... Real-time DGPS positioning, accepts WAAS corrections ¹	\$2,495
OEM4-G2-MSAS ²	..... Real-time DGPS positioning, accepts MSAS corrections ¹	\$2,495
OEM4-G2-EGNOS ²	..... Real-time DGPS positioning, accepts EGNOS corrections ¹	\$2,495

OEM4-G2L GPS RECEIVER OEM CARD

The OEM4-G2L™ is a parallel 24-channel, dual-frequency or 12-channel, single-frequency receiver featuring an 60 mm x 100 mm form-factor and low power consumption. All OEM4-G2L cards feature position output, real-time DGPS positioning, support for RTCA and RTCM messages, two serial ports and a USB interface. The OEM4-G2L is configurable as a rover or base station and is designed for embedded applications. All models are available with the API (Application Program Interface) option. Add \$750 to the list price and "-API" to the part number for each receiver requiring API capabilities.

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

OEM4-G2L-RT2W	..... 2 cm real-time kinematic positioning, accepts SBAS corrections ¹ , real-time DGPS, raw data output ..	\$9,495
OEM4-G2L-RT2	..... 2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$8,995
OEM4-G2L-L1L2W	..... Outputs RT-2® corrections, accepts SBAS corrections ¹ , real-time DGPS, raw data output	\$7,995
OEM4-G2L-L1L2	..... Outputs RT-2® corrections, real-time DGPS positioning, raw data output.....	\$7,495

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

OEM4-G2L-RT20W	..... 20 cm real-time kinematic positioning, accepts SBAS corrections ¹ , real-time DGPS, raw data out	\$5,495
OEM4-G2L-RT20	..... 20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$4,995
OEM4-G2L-3151W	..... Outputs RT-20® corrections, accepts SBAS corrections ¹ , real-time DGPS, raw data output	\$3,995
OEM4-G2L-3151R	..... Outputs RT-20® corrections, real-time DGPS positioning, raw data output	\$3,495
OEM4-G2L-3111R	..... Real-time DGPS positioning.....	\$1,995
OEM4-G2L-WAAS ²	..... Real-time DGPS positioning, accepts WAAS corrections ¹	\$2,495
OEM4-G2L-MSAS ²	..... Real-time DGPS positioning, accepts MSAS corrections ¹	\$2,495
OEM4-G2L-EGNOS ²	..... Real-time DGPS positioning, accepts EGNOS corrections ¹	\$2,495

¹ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.
² Requires a GPS-702 antenna to attain 80 cm accuracy using WAAS, MSAS, or EGNOS corrections.

PROPAK-G2plus GPS RECEIVER ENCLOSURE

Available September 15, 2004

The ProPak®-G2plus is a rugged, lightweight enclosure containing the OEM4-G2 receiver. It is available in RS-232 or RS-422 configurations with three serial ports and USB support. The ProPak-G2plus also features optional support for an external IMU. It includes an automotive power adapter, a null-modem cable, a straight serial cable, a USB cable, an auxiliary I/O port cable, and a mounting kit. All ProPak-G2plus receivers provide position output, real-time DGPS positioning, and support for RTCA and RTCM messages and are configurable as a rover or base station. All models are also available with the API (Application Program Interface) option. Add \$750 to the list price and "-A" to the part number for each enclosure requiring API capabilities.

RS-232 VERSION

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

PROPAK-G2+DB9-RT2Wi.....	IMU support, 2 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data	\$18,495
PROPAK-G2+DB9-RT2W	2 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$10,495
PROPAK-G2+DB9-RT2.....	2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$9,995
PROPAK-G2+DB9-L1L2W	Outputs RT-2@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$8,995
PROPAK-G2+DB9-L1L2.....	Outputs RT-2@ corrections, real-time DGPS positioning, raw data output.....	\$8,495

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

PROPAK-G2+DB9-RT20W	20 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$6,495
PROPAK-G2+DB9-RT20.....	20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$5,995
PROPAK-G2+DB9-3151W	Outputs RT-20@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output ..	\$4,995
PROPAK-G2+DB9-3151R	Outputs RT-20@ corrections, real-time DGPS positioning, raw data output	\$4,495
PROPAK-G2+DB9-3111R.....	Real-time DGPS positioning.....	\$2,995
PROPAK-G2+DB9-WAAS ⁴	Real-time DGPS positioning, accepts WAAS corrections ³	\$3,495
PROPAK-G2+DB9-MSAS ⁴	Real-time DGPS positioning, accepts MSAS corrections ³	\$3,495
PROPAK-G2+DB9-EGNOS ⁴	Real-time DGPS positioning, accepts EGNOS corrections ³	\$3,495

RS-422 VERSION⁵

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

PROPAK-G2+DB9-424-RT2Wi ...	IMU support, 2 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data	\$18,495
PROPAK-G2+DB9-424-RT2W	2 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$10,495
PROPAK-G2+DB9-424-RT2.....	2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$9,995
PROPAK-G2+DB9-424-L1L2W ...	Outputs RT-2@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$8,995
PROPAK-G2+DB9-424-L1L2	Outputs RT-2@ corrections, real-time DGPS positioning, raw data output.....	\$8,495

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

PROPAK-G2+DB9-424-RT20W ..	20 cm RTK positioning, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$6,495
PROPAK-G2+DB9-424-RT20.....	20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$5,995
PROPAK-G2+DB9-424-3151W ...	Outputs RT-20@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output ..	\$4,995
PROPAK-G2+DB9-424-3151R....	Outputs RT-20@ corrections, real-time DGPS positioning, raw data output	\$4,495
PROPAK-G2+DB9-424-3111R....	Real-time DGPS positioning.....	\$2,995
PROPAK-G2+DB9-424-WAAS ⁴ ..	Real-time DGPS positioning, accepts WAAS corrections ³	\$3,495
PROPAK-G2+DB9-424-MSAS ⁴ ...	Real-time DGPS positioning, accepts MSAS corrections ³	\$3,495
PROPAK-G2+DB9-424-EGNOS ⁴	Real-time DGPS positioning, accepts EGNOS corrections ³	\$3,495

³ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.

⁴ Requires a GPS-702 antenna to attain 80 cm accuracy using WAAS, MSAS, or EGNOS corrections.

⁵ The RS-422 version provides COM1 and COM3 at RS-422 levels. COM2 remains at RS-232 levels.

DL-4plus GPS RECEIVER ENCLOSURE WITH DATA LOGGING CAPABILITIES

Available September 15, 2004

The DL-4plus is a rugged, lightweight enclosure containing the OEM4-G2 receiver and featuring integrated memory, an LCD, and a keypad for data logging. It offers three serial ports, USB support, a configurable PPS output and mark input, and a variable frequency output. Available in RS-232 or RS-422 configuration, the DL-4plus also features optional support for an external IMU. Included with the enclosure are an automotive power adapter, a null-modem cable, a straight serial cable, an auxiliary I/O port cable, a USB cable, DL4Tool™ software, and a mounting kit. All DL-4plus enclosures provide position output, real-time DGPS positioning, and support for RTCA and RTCM messages and are configurable as a rover or base station. All models are available with the API (Application Program Interface) option. Add \$750 to the list price and “-A” to the part number for each enclosure requiring API capabilities.

RS-232 VERSION

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

DL-4+RT2Wi.....	IMU support, 2 cm RTK positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$19,995
DL-4+RT2W.....	2 cm real-time kinematic positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$11,995
DL-4+RT2.....	2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$11,495
DL-4+L1L2W	Outputs RT-2@ corrections, accepts SBAS corrections ⁶ , real-time DGPS, raw data output	\$10,495
DL-4+L1L2.....	Outputs RT-2@ corrections, real-time DGPS positioning, raw data output.....	\$9,995

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

DL-4+RT20W.....	20 cm real-time kinematic positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$7,995
DL-4+RT20.....	20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$7,495
DL-4+3151W	Outputs RT-20@ corrections, accepts SBAS corrections ⁶ , real-time DGPS, raw data output	\$6,495
DL-4+3151R	Outputs RT-20@ corrections, real-time DGPS positioning, raw data output	\$5,995
DL-4+3111R	Real-time DGPS positioning.....	\$4,495
DL-4+WAAS ⁷	Real-time DGPS positioning, accepts WAAS corrections ⁶	\$4,995
DL-4+MSAS ⁷	Real-time DGPS positioning, accepts MSAS corrections ⁶	\$4,995
DL-4+EGNOS ⁷	Real-time DGPS positioning, accepts EGNOS corrections ⁶	\$4,995

RS-422 VERSION⁸

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

DL-4+424-RT2Wi.....	IMU support, 2 cm RTK positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$19,995
DL-4+424-RT2W	2 cm real-time kinematic positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$11,995
DL-4+424-RT2.....	2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$11,495
DL-4+424-L1L2W	Outputs RT-2@ corrections, accepts SBAS corrections ⁶ , real-time DGPS, raw data output	\$10,495
DL-4+424-L1L2.....	Outputs RT-2@ corrections, real-time DGPS positioning, raw data output.....	\$9,995

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

DL-4+424-RT20W	20 cm real-time kinematic positioning, accepts SBAS corrections ⁶ , real-time DGPS, raw data out	\$7,995
DL-4+424-RT20.....	20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$7,495
DL-4+424-3151W	Outputs RT-20@ corrections, accepts SBAS corrections ⁶ , real-time DGPS, raw data output	\$6,495
DL-4+424-3151R	Outputs RT-20@ corrections, real-time DGPS positioning, raw data output	\$5,995
DL-4+424-3111R	Real-time DGPS positioning.....	\$4,495
DL-4+424-WAAS ⁷	Real-time DGPS positioning, accepts WAAS corrections ⁵	\$4,995
DL-4+424-MSAS ⁷	Real-time DGPS positioning, accepts MSAS corrections ⁵	\$4,995
DL-4+424-EGNOS ⁷	Real-time DGPS positioning, accepts EGNOS corrections ⁵	\$4,995

⁶ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.

⁷ Requires a GPS-702 antenna to attain 80 cm accuracy using WAAS, MSAS, or EGNOS corrections.

⁸ The RS-422 version provides COM1 and COM3 at RS-422 levels. COM2 remains at RS-232 levels.

FLEXPAK-G2L GPS RECEIVER ENCLOSURE

The FlexPak™-G2L is a rugged, waterproof enclosure containing the OEM4-G2L engine. All FlexPak-G2L receivers offer position output, real-time DGPS positioning, support for RTCA and RTCM messages, two serial ports, and a USB interface. Included with the enclosure are an automotive power adapter, two serial cables, Windows®-based software utilities, and manuals. All models are available with the API (Application Program Interface) option. Add \$750 to the list price and “-A” to the part number for each receiver requiring API capabilities.

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code

FLEXPAK-G2L-RT2W	..... 2 cm real-time kinematic positioning, accepts SBAS corrections ⁹ , real-time DGPS, raw data output ..	\$9,945
FLEXPAK-G2L-RT2	..... 2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$9,445
FLEXPAK-G2L-L1L2W	.... Outputs RT-2® corrections, accepts SBAS corrections ⁹ , real-time DGPS, raw data output.....	\$8,445
FLEXPAK-G2L-L1L2	..... Outputs RT-2® corrections, real-time DGPS positioning, raw data output.....	\$7,945

Single-Frequency, 12-Channel, L1 C/A code (Fully Upgradeable to Dual-Frequency)

FLEXPAK-G2L-RT20W	... 20 cm real-time kinematic positioning, accepts SBAS corrections ⁹ , real-time DGPS, raw data out	\$5,945
FLEXPAK-G2L-RT20	..... 20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output.....	\$5,445
FLEXPAK-G2L-3151W	.... Outputs RT-20® corrections, accepts SBAS corrections ⁹ , real-time DGPS, raw data output.....	\$4,445
FLEXPAK-G2L-3151R	..... Outputs RT-20® corrections, real-time DGPS positioning, raw data output	\$3,945
FLEXPAK-G2L-3111R	..... Real-time DGPS positioning.....	\$2,445
FLEXPAK-G2L-WAAS ¹⁰	... Real-time DGPS positioning, accepts WAAS corrections ⁹	\$2,945
FLEXPAK-G2L-MSAS ¹⁰	... Real-time DGPS positioning, accepts MSAS corrections ⁹	\$2,945
FLEXPAK-G2L-EGNOS ¹⁰	Real-time DGPS positioning, accepts EGNOS corrections ⁹	\$2,945

PROPAK-LBplus OmniSTAR-ENABLED GPS RECEIVER ENCLOSURE

The ProPak®-LBplus is a rugged, lightweight enclosure containing the OEM4-G2 receiver and support for OmniSTAR correction data (requires a subscription to the OmniSTAR service). It offers three RS-232 serial ports and a configurable PPS output and mark input. The ProPak-LBplus also features optional support for an external IMU. Included with the enclosure are an automotive power adapter, three serial cables, and a mounting kit. All ProPak-LBplus enclosures offer position output, real-time DGPS positioning, and support for RTCA and RTCM messages and are configurable as a rover or base station.

Dual-Frequency, 24-Channel, L1 C/A code, L2 P(Y) code and OmniSTAR HP

PROPAK-LB+HP-RT2i	.... IMU support, 2 cm RTK positioning, accepts OmniSTAR HP ¹¹ and SBAS ⁹ corrections, raw data.....	\$19,495
PROPAK-LB+HP-RT2	..... 2 cm real-time kinematic positioning, accepts OmniSTAR HP ¹¹ and SBAS ⁹ corrections, raw data ...	\$11,495
PROPAK-LB+HP-L1L2	.... Outputs RT-2® corrections, accepts OmniSTAR HP ¹¹ and SBAS ⁹ corrections, raw data output.....	\$9,995
PROPAK-LB+HP	..... Accepts OmniSTAR HP ¹¹ and SBAS ⁹ corrections	\$7,995

Single-Frequency, 12-Channel, L1 C/A code and OmniSTAR VBS (Fully Upgradeable to Dual-Frequency)

PROPAK-LB+VBS-RT20	. 20 cm RTK positioning, accepts OmniSTAR VBS ¹² and SBAS ⁹ corrections, raw data output	\$7,495
PROPAK-LB+VBS-L1	..... Outputs RT-20® corrections, accepts OmniSTAR VBS ¹² and SBAS ⁹ corrections, raw data output.....	\$5,995
PROPAK-LB+VBS	..... Accepts OmniSTAR VBS ¹² and SBAS ⁹ corrections	\$3,995

⁹ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.

¹⁰ Requires a GPS-702 antenna to attain 80 cm accuracy using WAAS, MSAS, or EGNOS corrections.

¹¹ A subscription is required to OmniSTAR HP service, which may not be available in all areas.

¹² A subscription is required to OmniSTAR VBS service, which may not be available in all areas.

ACCESSORIES FOR L1/L2 RECEIVERS



ANTENNAS

Dual-Frequency Antennas

GPS-702.....	L1/L2, kinematic, zero-offset antenna.....	\$995
GPS-600-LB.....	L1/L2 and L-band, kinematic, zero-offset antenna.....	\$1,250
GPS-533.....	L1/L2, geodetic antenna with choke ring and protective radome.....	\$1,600
GPS-532.....	L1/L2, aircraft-certified antenna.....	\$1,100
GPS-532-C.....	L1/L2, aircraft-certified antenna with FAA airworthiness certificate.....	\$1,200

Single-Frequency Antennas

GPS-701.....	L1, kinematic, zero-offset antenna.....	\$595
GPS-521.....	L1, automotive antenna.....	\$275
GPS-511.....	L1, aircraft-certified antenna.....	\$365

ANTENNA CABLES

GPS-C006.....	5 meter RF cable with straight TNC male plug connectors (for GPS-xxx antennas).....	\$80
GPS-C016.....	15 meter RF cable with straight TNC male plug connectors (for GPS-xxx antennas).....	\$160
GPS-C032.....	30 meter, low-loss RF cable with straight TNC male plug connectors (for GPS-xxx antennas).....	\$795
01016772.....	22.5 cm RF cable with right-angle MMCX male plug and straight TNC bulkhead jack connectors.....	\$50

POWER AND COMMUNICATION CABLES

ProPak-G2plus

01017023.....	Power cable with automotive adapter (included with ProPak-G2plus).....	\$125
60323062.....	Null-modem cable with 2 female DB-9 connectors (included with ProPak-G2plus).....	\$30
60723066.....	Straight serial cable with male and female DB-9 connectors (included with ProPak-G2plus).....	\$30
60723065.....	I/O strobe port interface cable with DB-9 male connector and open wires (included with ProPak-G2plus).....	\$30
01017408.....	USB cable (included with ProPak-G2plus).....	\$30

DL-4plus

01017023.....	Power cable with automotive adapter (included with DL-4plus).....	\$125
60323062.....	Null-modem cable with 2 female DB-9 connectors (included with DL-4plus).....	\$30
60723066.....	Straight serial cable with male and female DB-9 connectors (included with DL-4plus).....	\$30
60723065.....	I/O strobe port interface cable with DB-9 male connector and open wires (included with DL-4plus).....	\$30
01017408.....	USB cable (included with DL-4plus).....	\$30

FlexPak-G2L

01017374.....	Power cable with automotive adapter (included with FlexPak-G2L).....	\$110
01017375.....	Straight serial cable with LEMO and female DB-9 connectors (included with FlexPak-G2L).....	\$125
01017359.....	USB cable for FlexPak-G2L.....	\$80

ProPak-LBplus

60723064.....	Power cable with automotive adapter (included with ProPak-LBplus).....	\$85
60723061.....	Serial cable with female DB-9 and 6-pin, female Switchcraft connectors (included with ProPak-LBplus).....	\$65
60723062.....	Serial cable with female DB-9 and 7-pin, female Switchcraft connectors (included with ProPak-LBplus).....	\$70
60723063.....	Serial cable with female DB-9 and 8-pin, female Switchcraft connectors (included with ProPak-LBplus).....	\$65

OTHER

40123112.....	AC adapter with automotive receptacle and North American plug.....	\$50
40023098.....	AC adapter with auto receptacle and IEC-320-C14 input inlet (requires addition of region-specific plug).....	\$75
010-0-0026.....	DL-4 compact flash memory card.....	\$110
40023090.....	AC adapter (+24 VDC @ 3 A) (for Aviation products).....	\$310

L1 RECEIVERS



SUPERSTAR II GPS RECEIVER OEM CARD

The **SUPERSTAR II™** is a 12-channel, L1-only receiver just 46 mm x 71 mm. It features low power consumption, standard 1 Hz PVT output, real-time DGPS positioning, and accepts SBAS corrections. Available in 5 V and 3.3 V models, the SUPERSTAR II is designed for embedded applications but is also available as part of a SMART ANTENNA receiver/antenna combination or the FlexPak-SSII. A development kit is also offered, with the FlexPak-SSII enclosure, a magnetic mount antenna with integrated RF cable, an interface cable, and an AC adapter.

SUPERSTAR II OEM Card

SSII-3-BASE.....	3.3 V, DGPS base station operation, 1 Hz CP output, SBAS, default of 9,600 bps	\$1,115
SSII-3-10CP-19	3.3 V, 10 Hz carrier phase output, SBAS, default baud rate of 19,200 bps.....	\$365
SSII-3-5HZ.....	3.3 V, 5 Hz PVT output, SBAS, default baud rate of 9,600 bps.....	\$315
SSII-3-1CPT-19	3.3 V, 1 Hz carrier phase output, precise timing, SBAS, default baud rate of 19,200 bps.....	\$165
SSII-3-1CPT	3.3 V, 1 Hz carrier phase output, precise timing, SBAS, default baud rate of 9,600 bps.....	\$165
SSII-3-STD	3.3 V, SBAS, default baud rate of 9,600 bps.....	\$115
SSII-5-BASE.....	5 V, DGPS base station operation, 1 Hz CP output, SBAS, default baud rate of 9,600 bps	\$1,115
SSII-5-10CP-19	5 V, 10 Hz carrier phase output, SBAS, default baud rate of 19,200 bps.....	\$365
SSII-5-5HZ.....	5 V, 5 Hz PVT output, SBAS, default baud rate of 9,600 bps.....	\$315
SSII-5-1CPT-19	5 V, 1 Hz carrier phase output, precise timing, SBAS, default baud rate of 19,200 bps.....	\$165
SSII-5-1CPT	5 V, 1 Hz carrier phase output, precise timing, SBAS, default baud rate of 9,600 bps.....	\$165
SSII-5-STD	5 V, SBAS, default baud rate of 9,600 bps.....	\$115

Development Kit for SUPERSTAR II

DK-FLEXPAK-SSII-BASE.....	Development kit incl. FlexPak-SSII with DGPS base, 1 Hz CP output, SBAS, 9,600 bps.....	\$1,715
DK-FLEXPAK-SSII-10CP-19	Development kit including FlexPak-SSII with 10 Hz CP output, SBAS, 19,200 bps default	\$965
DK-FLEXPAK-SSII-5HZ	Development kit including FlexPak-SSII with 5 Hz PVT output, SBAS, 9,600 bps default	\$915
DK-FLEXPAK-SSII-1CPT-19.....	Development kit incl. FlexPak-SSII with 1 Hz CP output, precise timing, SBAS, 19,200 bps.....	\$765
DK-FLEXPAK-SSII-1CPT	Development kit incl. FlexPak-SSII with 1 Hz CP output, precise timing, SBAS, 9,600 bps.....	\$765
DK-FLEXPAK-SSII-STD	Development kit including FlexPak-SSII with SBAS, 9,600 bps default	\$715

FLEXPAK-SSII GPS RECEIVER ENCLOSURE

The **FlexPak™-SSII** is a 12-channel, L1-only waterproof receiver enclosure offering standard 1 Hz PVT output, real-time DGPS positioning, and support for NMEA and RTCM messages and SBAS corrections. It features two serial ports up to 19,200 bps and optional 1 or 10 Hz carrier phase output or 5 Hz PVT output. A serial cable and an automotive power adapter are included with the FlexPak-SSII. The development kit includes a magnetic mount antenna with integrated RF cable, an interface cable, and an AC adapter.

FlexPak-SSII Enclosure

FLEXPAK-SSII-BASE.....	DGPS base station operation, 1 Hz CP output, SBAS, default baud rate of 9,600 bps.....	\$1,465
FLEXPAK-SSII-10CP-19	10 Hz carrier phase output, SBAS, default baud rate of 19,200 bps	\$715
FLEXPAK-SSII-5HZ.....	5 Hz PVT output, SBAS, default baud rate of 9,600 bps	\$665
FLEXPAK-SSII-1CPT-19	1 Hz carrier phase output, precise timing, SBAS, default baud rate of 19,200 bps	\$515
FLEXPAK-SSII-1CPT	1 Hz carrier phase output, precise timing, SBAS, default baud rate of 9,600 bps.....	\$515
FLEXPAK-SSII-STD	SBAS, default baud rate of 9,600 bps	\$465

Development Kit for FlexPak-SSII

DK-FLEXPAK-SSII-BASE.....	Development kit incl. FlexPak-SSII with DGPS base, 1 Hz CP output, SBAS, 9,600 bps.....	\$1,715
DK-FLEXPAK-SSII-10CP-19	Development kit including FlexPak-SSII with 10 Hz CP output, SBAS, 19,200 bps default	\$965
DK-FLEXPAK-SSII-5HZ	Development kit including FlexPak-SSII with 5 Hz PVT output, SBAS, 9,600 bps default	\$915
DK-FLEXPAK-SSII-1CPT-19.....	Development kit incl. FlexPak-SSII with 1 Hz CP output, precise timing, SBAS, 19,200 bps.....	\$765
DK-FLEXPAK-SSII-1CPT	Development kit incl. FlexPak-SSII with 1 Hz CP output, precise timing, SBAS, 9,600 bps.....	\$765
DK-FLEXPAK-SSII-STD	Development kit including FlexPak-SSII with SBAS, default baud rate of 9,600 bps	\$715

SMART ANTENNA RECEIVER/ANTENNA COMBINATION

The SMART ANTENNA™ is a 12-channel, L1-only integrated receiver and antenna with standard 1 Hz PVT output and real-time DGPS positioning. It is available in a variety of configurations, including an RS-232 or RS-422 interface, and features a PPS output. Development kits are available and contain a SMART ANTENNA, a magnetic mount, an interface cable, and the Windows®-based STARVIEW software. Development kits for RS-422 SMART ANTENNAS also contain an RS-422 to RS-232 converter.

RS-422 SMART ANTENNA with SUPERSTAR II

SA-422-12W-BASE	White, 12-pin plastic standard conn, DGPS base, 1 Hz CP output, SBAS, 9,600 bps default	\$1,399
SA-422-12W-10CP-19.....	White, 12-pin plastic standard connector, 10 Hz CP output, SBAS, 19,200 bps default	\$649
SA-422-12W-5HZ	White, 12-pin plastic standard connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$599
SA-422-12W-1CPT-19.....	White, 12-pin plastic standard conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps default	\$449
SA-422-12W-1CPT	White, 12-pin plastic standard conn, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$449
SA-422-12W-STD	White, 12-pin plastic standard connector, SBAS, default baud rate of 9,600 bps	\$399

SA-422-CMW-BASE	White, 12-pin plastic cable mount conn, DGPS base, 1 Hz CP output, SBAS, 9,600 bps default	\$1,399
SA-422-CMW-10CP-19 ...	White, 12-pin plastic cable mount connector, 10 Hz CP output, SBAS, 19,200 bps default	\$649
SA-422-CMW-5HZ	White, 12-pin plastic cable mount connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$599
SA-422-CMW-1CPT-19 ...	White, 12-pin plastic cable mount conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps default	\$449
SA-422-CMW-1CPT	White, 12-pin plastic cable mount conn, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$449
SA-422-CMW-STD	White, 12-pin plastic cable mount connector, SBAS, default baud rate of 9,600 bps	\$399

RS-232 SMART ANTENNA with SUPERSTAR II¹³

SA-232-07W-10CP-19.....	White, 7-pin plastic standard connector, 10 Hz CP output, SBAS, 19,200 bps default	\$649
SA-232-07W-5HZ	White, 7-pin plastic standard connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$599
SA-232-07W-1CPT-19.....	White, 7-pin plastic standard conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps default	\$449
SA-232-07W-1CPT	White, 7-pin plastic standard conn, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$449
SA-232-07W-STD	White, 7-pin plastic standard connector, SBAS, default baud rate of 9,600 bps	\$399

SA-232-06W-10CP-19.....	White, 6-pin metal standard connector, 10 Hz CP output, SBAS, 19,200 bps default	\$649
SA-232-06W-5HZ	White, 6-pin metal standard connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$599
SA-232-06W-1CPT-19.....	White, 6-pin metal standard connector, 1 Hz CP output, precise timing, SBAS, 19,200 bps default	\$449
SA-232-06W-1CPT	White, 6-pin metal standard connector, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$449
SA-232-06W-STD	White, 6-pin metal standard connector, SBAS, default baud rate of 9,600 bps	\$399

SA-232-06G-10CP-19	Green, 6-pin metal standard connector, 10 Hz CP output, SBAS, 19,200 bps default	\$649
SA-232-06G-5HZ	Green, 6-pin metal standard connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$599
SA-232-06G-1CPT-19	Green, 6-pin metal standard conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps default	\$449
SA-232-06G-1CPT	Green, 6-pin metal standard connector, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$449
SA-232-06G-STD	Green, 6-pin metal standard connector, SBAS, default baud rate of 9,600 bps	\$399

Development Kit for RS-422 SMART ANTENNA with SUPERSTAR II

DK-SA-422-12W-BASE	Dev kit with white, 12-pin standard conn, DGPS base, 1 Hz CP output, SBAS, 9,600 bps	\$1,739
DK-SA-422-12W-10CP-19.....	Dev kit with white, 12-pin standard connector, 10 Hz CP output, SBAS, 19,200 bps default	\$989
DK-SA-422-12W-5HZ	Dev kit with white, 12-pin standard connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$939
DK-SA-422-12W-1CPT-19	Dev kit with white, 12-pin std conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps	\$789
DK-SA-422-12W-1CPT	Dev kit with white, 12-pin std conn, 1 Hz CP output, precise timing, SBAS, 9,600 bps default	\$789
DK-SA-422-12W-STD	Dev kit with white, 12-pin standard connector, SBAS, default baud rate of 9,600 bps	\$739

Development Kit for RS-232 SMART ANTENNA with SUPERSTAR II¹⁰

DK-SA-232-07W-10CP-19.....	Dev kit with white, 7-pin plastic connector, 10 Hz CP output, SBAS, 19,200 bps default	\$849
DK-SA-232-07W-5HZ	Dev kit with white, 7-pin plastic connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$799
DK-SA-232-07W-1CPT-19	Dev kit with white, 7-pin plastic conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps	\$649
DK-SA-232-07W-1CPT	Dev kit with white, 7-pin plastic conn, 1 Hz CP output, precise timing, SBAS, 9,600 bps	\$649
DK-SA-232-07W-STD	Dev kit with white, 7-pin plastic connector, SBAS, default baud rate of 9,600 bps	\$599

DK-SA-232-06G-10CP-19	Dev kit with green, 6-pin metal connector, 10 Hz CP output, SBAS, 19,200 bps default	\$849
DK-SA-232-06G-5HZ	Dev kit with green, 6-pin metal connector, 5 Hz PVT output, SBAS, 9,600 bps default	\$799
DK-SA-232-06G-1CPT-19	Dev kit with green, 6-pin metal conn, 1 Hz CP output, precise timing, SBAS, 19,200 bps	\$649
DK-SA-232-06G-1CPT	Dev kit with green, 6-pin metal connector, 1 Hz CP output, precise timing, SBAS, 9,600 bps	\$649
DK-SA-232-06G-STD	Dev kit with green, 6-pin metal connector, SBAS, default baud rate of 9,600 bps	\$599

¹³ At this time, NovAtel cannot guarantee delivery times for SUPERSTAR-II based, RS-232 SMART ANTENNAS and development kits.

SOFTWARE UPGRADES FOR SUPERSTAR II-BASED PRODUCTS

To increase the functionality and features of your SUPERSTAR II-based receiver, software model upgrades are available for purchase. Upgrades can be completed in the field using a software utility provided by NovAtel. Note that only one model can be loaded on the SUPERSTAR II receiver at any given time and, thus, model upgrades will replace the current model with the desired new model. As a result, any features found only in the current model will no longer be available after the upgrade. Prices listed below apply to all SUPERSTAR II-based receivers, regardless of the current model.

SW-UG-BASE	Upgrade to replace current model with DGPS base station, 1 Hz CP output, SBAS, 9,600 bps default	\$1,000
SW-UG-10CP-19	Upgrade to replace current model with 10 Hz carrier phase output, SBAS, default of 19,200 bps	\$250
SW-UG-5HZ	Upgrade to replace current model with 5 Hz PVT output, SBAS, default of 19,200 bps	\$200
SW-UG-1CPT-19	Upgrade to replace current model with 1 Hz carrier phase output, SBAS, default of 19,200 bps	\$50
SW-UG-1CPT	Upgrade to replace current model with 1 Hz carrier phase output, SBAS, default of 9,600 bps	\$50

ACCESSORIES FOR L1 RECEIVERS



ANTENNAS

Antennas

201-990144-807	.....L1, marine antenna with +12 dB gain, TNC connector, 1"-14 thread mounting	..... \$200
201-990148-152	.....L1, AVL antenna with +12 dB gain, 20 ft cable with TNC connector, removable magnet	..... \$240
201-990146-716	.....L1, AVL antenna with +12 dB gain, 20 ft cable with MCX connector, removable magnet	..... \$200
201-990146-789	.....L1, AVL antenna with +12 dB gain, 20 ft cable with BNC connector, removable magnet	..... \$200
201-990300-759	.....L1, AVL antenna with +26 dB gain, 20 ft cable with TNC connector, removable magnet	..... \$240
201-990147-606	.....L1, geodetic antenna with +26 dB gain, TNC connector, built-in ground plane, 1"-14 thread mounting	..... \$485
201-990147-432	.....L1, AVL antenna with +12 dB gain, TNC connector, 5/8"-11 thread mounting	..... \$125

Antenna Accessories

270-990146-890	.....Magnetic mount for 1"-14 thread mounting antenna	..... \$75
530-990300-203	.....Bushing adapter, 5/8"-11 to 1"-14 thread	..... \$15

ANTENNA CABLES

217-601730-005	.....5 m RF cable with straight TNC male connectors (for +12 dB L1 antennas)	..... \$40
217-601730-015	.....15 m RF cable with straight TNC male connectors (for +12 dB L1 antennas)	..... \$65
217-601730-030	.....30 m RF cable with straight TNC male connectors (for +26 dB L1 antennas)	..... \$130

POWER AND COMMUNICATION CABLES

FlexPak-SSII

01017374	.....Power cable with automotive adapter (included with FlexPak-SSII)	..... \$110
01017375	.....Straight serial cable with LEMO and female DB-9 connectors (included with FlexPak-SSII)	..... \$125

RS-422 SMART ANTENNA

217-601764-001	.....5 meter interface cable with 12-pin connector and open wires	..... \$85
217-601764-002	.....30 meter interface cable with 12-pin connector and open wires	..... \$240
217-601764-003	.....15 meter interface cable with 12-pin connector and open wires	..... \$150

RS-232 SMART ANTENNA with 7-pin plastic connector

217-601742-001	.....5 meter interface cable with 7-pin plastic connector and open wires	..... \$75
217-601742-003	.....5 meter interface cable with 7-pin plastic connector and DB-9 and automotive adapter	..... \$100

RS-232 SMART ANTENNA with 6-pin metal connector

217-601798-001	.....5 meter interface cable with 6-pin metal connector and open wires	..... \$85
217-601798-003	.....5 meter interface cable with 6-pin metal connector and DB-9 and automotive adapter	..... \$110
217-601798-004	.....15 meter interface cable with 6-pin metal connector and DB-9 and automotive adapter	..... \$140

OTHER

40123112	.....AC adapter with automotive receptacle	..... \$50
40023098	.....AC adapter with auto receptacle and IEC-320-C14 input inlet (requires addition of region-specific plug)	..... \$75
40023100	.....RS-422 to RS-232 converter with DB-9 connector	..... \$180

SPECIALTY PRODUCTS



IMU-G2 (SPAN TECHNOLOGY)

Available September 30, 2004

The IMU-G2 adds inertial capabilities to your GPS receiver for position and attitude data and continuous positioning. The IMU-G2 is compatible with IMU capable models of the DL-4*plus*, ProPak-G2*plus*, or ProPak-LB*plus*.

ENCL-RLG-11	IMU-G2 enclosure with 1 degree per hour IMU	\$20,000
ENCL-RLG-17	IMU-G2 enclosure with 10 degree per hour IMU	\$13,000
01017394.....	IMU-G2 enclosure without IMU	\$2,000
01017384.....	Interface cable for IMU-G2 and ProPak-G2 <i>plus</i> and DL-4 <i>plus</i>	\$200
01017393.....	Interface cable for IMU-G2 and ProPak-LB <i>plus</i>	\$215

APPLICATION PROGRAMMING INTERFACE (API) DEVELOPMENT KIT

The Application Programming Interface (API) development kit includes the API library, which provides the functions needed to develop a C/C++ application to run on the OEM4 family of receivers. Use of an API application requires a receiver enabled with API capabilities. (See [L1/L2 Receivers](#) for information on ordering a receiver with API capabilities.)

API-DEV-KIT	API development kit	\$10,000
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EURO-3M GPS RECEIVER OEM CARD

The Euro-3M™ features Signal Quality Monitoring (SQM) and the patent-pending SafeTrack cross-correlation verification algorithm. The standard version includes 14 channels for L1/L2 tracking and 4 channels for L1 GEO tracking. Alternately, the Euro-3M is offered with MEDLL multipath reduction technology combined with 8 L1/L2 channels and 1 L1 GEO channel. An enclosure for the Euro-3M card is also available with an optional high-stability internal oscillator.

EURO-3M.....	14-channel L1/L2 tracking and 4-channel L1 GEO tracking	\$8,495
EURO-3M-MEDLL.....	8-channel L1/L2 tracking and 1-channel L1 GEO tracking with MEDLL.....	\$10,745
EUROPAK-3M.....	Enclosed Euro-3M receiver	\$9,495
EUROPAK-3M-MEDLL....	Enclosed Euro-3M-MEDLL receiver	\$11,745
EUROPAK-3MT.....	Enclosed Euro-3M receiver with internal oscillator	\$10,995
EUROPAK-3MT-MEDLL..	Enclosed Euro-3M-MEDLL receiver with internal oscillator	\$13,245

EURO-L5 GPS RECEIVER OEM CARD

The Euro-L5™ tracks up to four L5 WAAS GEO signals and features digital pulse blanking for mitigation of pulsed RF interference. The receiver offers an external oscillator input and two RS-232 serial ports. The Euro-L5 is also available in a rugged enclosure.

EURO-L5	L5 OEM receiver in Eurocard format.....	\$10,497
EUROPAK-L5.....	Enclosed Euro-L5 receiver	\$11,497

MULTIPATH TOOLS

NovAtel offers a wide range of products for managing multipath. The [Portable MEDLL Receiver](#) includes Multipath Estimating Delay Lock Loop (MEDLL®) technology for multipath reduction and, along with NovAtel's [Multipath Assessment Tool](#) software, can be used to optimize antenna site selection for base stations.

Portable MEDLL Receiver	\$47,000
Portable MEDLL Receiver Lease (per month with a minimum of one month)	\$8,495
Multipath Assessment Tool (MAT).....	\$4,875
Multipath Meter Software (for MEDLL receivers).....	\$2,000

WAAS

The **WAAS Receiver** includes Multipath Estimating Delay Lock Loop (MEDLL®) and Narrow Correlator® technologies. Units are available for lease.

WAAS Receiver Lease (per month with a minimum of one month) \$8,495

L1/L5 RACK-MOUNT RECEIVER

The L1/L5 receiver features L5 tracking with 2-channel digital pulse blanking and 10-channel L1 GPS tracking. It includes three serial ports in a 19" rack-mount metal enclosure.

L1/L5 RECEIVER Rack-mount L1/L5 receiver \$34,880