



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-G2™ GPS RECEIVER ENCLOSURE

The ProPak-G2 is a rugged, lightweight enclosure containing the OEM4-G2 receiver. It is available with DB-9 or LEMO connectors and offers three RS-232 serial ports and a configurable PPS output and mark input. Both versions include an automotive power adapter, a null-modem cable, a straight serial cable, and a mounting kit. The DB-9 version also includes an auxiliary I/O port cable. All ProPak-G2 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.

DB-9 VERSION

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

PROPAK-G2-DB9-RT2W	2 cm real-time kinematic positioning, accepts SBAS corrections ³ , real-time DGPS, raw data...	\$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 real-time kinematic positioning, accepts SBAS corrections ³ , real-time DGPS, raw data...	\$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

LEMO VERSION

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

PROPAK-G2-LEMO-RT2W	2 cm real-time kinematic positioning, accepts SBAS corrections ³ , real-time DGPS, raw data...	\$10,495
PROPAK-G2-LEMO-RT2	2 cm real-time kinematic positioning, real-time DGPS positioning, raw data output	\$9,995
PROPAK-G2-LEMO-L1L2W	Outputs RT-2@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$8,995
PROPAK-G2-LEMO-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-LEMO-RT20W	20 cm real-time kinematic positioning, accepts SBAS corrections ³ , real-time DGPS, raw data...	\$6,495
PROPAK-G2-LEMO-RT20	20 cm real-time kinematic positioning, real-time DGPS positioning, raw data output	\$5,995
PROPAK-G2-LEMO-3151W	Outputs RT-20@ corrections, accepts SBAS corrections ³ , real-time DGPS, raw data output	\$4,995
PROPAK-G2-LEMO-3151R.....	Outputs RT-20@ corrections, real-time DGPS positioning, raw data output	\$4,495
PROPAK-G2-LEMO-3111R.....	Real-time DGPS positioning	\$2,995
PROPAK-G2-LEMO-WAAS ⁴	Real-time DGPS positioning, accepts WAAS corrections ³	\$3,495
PROPAK-G2-LEMO-MSAS ⁴	Real-time DGPS positioning, accepts MSAS corrections ³	\$3,495
PROPAK-G2-LEMO-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.

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 ⁵ , 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 ⁵ , 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 ⁵ , 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 ⁵ , 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 ⁶	... Real-time DGPS positioning, accepts WAAS corrections ⁵	\$2,945
FLEXPAK-G2L-MSAS ⁶	.... Real-time DGPS positioning, accepts MSAS corrections ⁵	\$2,945
FLEXPAK-G2L-EGNOS ⁶	. Real-time DGPS positioning, accepts EGNOS corrections ⁵	\$2,945

DL-4™ GPS RECEIVER ENCLOSURE WITH DATA LOGGING CAPABILITIES

The DL-4 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 RS-232 serial ports, a configurable PPS output and mark input, and a variable frequency output. Included with the enclosure are an automotive power adapter, a null-modem cable, a straight serial cable, an auxiliary I/O port cable, DL4Tool™ software, and a mounting kit. All DL-4 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.

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

DL-4-RT2W	..... 2 cm real-time kinematic positioning, accepts SBAS corrections ⁵ , 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 ⁵ , 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 ⁵ , 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 ⁵ , 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 ⁶	..... Real-time DGPS positioning, accepts WAAS corrections ⁵	\$4,995
DL-4-MSAS ⁶	..... Real-time DGPS positioning, accepts MSAS corrections ⁵	\$4,995
DL-4-EGNOS ⁶	..... Real-time DGPS positioning, accepts EGNOS corrections ⁵	\$4,995

⁵ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.

⁶ Requires a GPS-702 antenna to attain 80 cm accuracy using WAAS, MSAS, or EGNOS corrections.

PROPAK-LB™ OmniSTAR-ENABLED GPS RECEIVER ENCLOSURE

The ProPak-LB 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. Included with the enclosure are an automotive power adapter, three serial cables, and a mounting kit. All ProPak-LB 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-RT2	2 cm real-time kinematic positioning, accepts OmniSTAR HP ⁷ and SBAS ⁸ corrections, raw data.....	\$11,495
PROPAK-LB-HP-L1L2	Outputs RT-2® corrections, accepts OmniSTAR HP ⁷ and SBAS ⁸ corrections, raw data output	\$9,995
PROPAK-LB-HP	Accepts OmniSTAR HP ⁷ and SBAS ⁸ 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 real-time kinematic positioning, accepts OmniSTAR VBS ⁹ and SBAS ⁸ corrections, raw data...	\$7,495
PROPAK-LB-VBS-L1	Outputs RT-20® corrections, accepts OmniSTAR VBS ⁹ and SBAS ⁸ corrections, raw data.....	\$5,995
PROPAK-LB-VBS.....	Accepts OmniSTAR VBS ⁹ and SBAS ⁸ corrections.....	\$3,995

⁷ A subscription is required to OmniSTAR HP service, which may not be available in all areas.

⁸ SBAS corrections including WAAS, MSAS, and EGNOS may not be available in all areas.

⁹ A subscription is required to OmniSTAR VBS service, which may not be available in all areas.

ACCESSORIES FOR L1/L2 RECEIVERS



ANTENNAS AND CHOKE RINGS

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-503.....	L1/L2, geodetic antenna with choke ring and protective radome.....	\$1,600
GPS-502.....	L1/L2, kinematic antenna.....	\$1,100
GPS-512.....	L1/L2, aircraft-certified antenna.....	\$1,100
GPS-512-C.....	L1/L2, aircraft-certified antenna with FAA airworthiness certificate.....	\$1,200

Single-Frequency Antennas

GPS-701.....	L1, kinematic, zero-offset antenna.....	\$595
GPS-531.....	L1, kinematic antenna.....	\$595
GPS-521.....	L1, automotive antenna.....	\$275
GPS-511.....	L1, aircraft-certified antenna.....	\$365

Choke Ring Ground Planes (For multipath reduction at base stations)

GPS-A032.....	Choke ring ground plane for GPS-531 or GPS-502 antennas.....	\$675
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ANTENNA CABLES

GPS-C006.....	5 meter RF cable with straight TNC male plug connectors.....	\$80
GPS-C016.....	15 meter RF cable with straight TNC male plug connectors.....	\$160
GPS-C032.....	30 meter, low-loss RF cable with straight TNC male plug connectors.....	\$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-G2 (DB-9 Version)

01017023.....	Power cable with automotive adapter (included with ProPak-G2-DB9).....	\$125
GPS-ACDL-4.....	Power cable with AC adapter (110 / 220 VAC).....	\$255
60715062.....	Null-modem Y-type cable with 1 female DB-25 and 2 female DB-9s (included with ProPak-G2-DB9).....	\$30
60723066.....	Straight serial cable with male and female DB-9 connectors (included with ProPak-G2-DB9).....	\$30
60723065.....	I/O strobe port interface cable with DB-9 male connector and open wires (included with ProPak-G2-DB9).....	\$30

ProPak-G2 (LEMO Version)

01017023.....	Power cable with automotive adapter (included with ProPak-G2-LEMO).....	\$125
GPS-ACDL-4.....	Power cable with AC adapter (110 / 220 VAC).....	\$255
01016383.....	Straight serial cable with LEMO and male DB-9 connectors (included with ProPak-G2-LEMO).....	\$135
01016329.....	Null-modem cable with LEMO and female DB-9 connectors (included with ProPak-G2-LEMO).....	\$135

FlexPak-G2L

60723067.....	Power cable with automotive adapter (included with FlexPak-G2L).....	\$110
60723068.....	Straight serial cable with LEMO and female DB-9 connectors (included with FlexPak-G2L).....	\$125

DL-4

01017023.....	Power cable with automotive adapter (included with DL-4).....	\$125
GPS-ACDL-4.....	Power cable with AC adapter (110 / 220 VAC).....	\$255
60715062.....	Null-modem Y-type cable with 1 female DB-25 and 2 female DB-9s (included with DL-4).....	\$30
60723066.....	Straight serial cable with male and female DB-9 connectors (included with DL-4).....	\$30
60723065.....	I/O strobe port interface cable with DB-9 male connector and open wires (included with DL-4).....	\$30

ProPak-LB

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

OTHER

010-0-0026.....	DL-4 compact flash memory card.....	\$110
40123112.....	AC adapter with automotive receptacle.....	\$50
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, 1 Hz PVT, and is 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 with the metal STARBOX enclosure, a magnetic mount antenna, RF cable, interface cable, and AC adapter is also offered.

SUPERSTAR II OEM Card

245-604090-011	5 V SUPERSTAR II with 1 Mb SRAM and 4 Mb flash memory	\$115
245-604090-111	3.3 V SUPERSTAR II with 1 Mb SRAM and 4 Mb flash memory	\$115

SUPERSTAR II Enclosure and Development Kit

100-600304-002	STARBOX enclosure containing SUPERSTAR II	\$425
241-600249-002	SUPERSTAR II development kit with STARBOX enclosure	\$725

SUPERSTAR II Options

SW-SSII-OP01	Integrated 1 Hz carrier phase measurements, default baud rate of 19,200 bps	\$50
SW-SSII-OP02	Integrated 1 Hz carrier phase measurements, default baud rate of 9,600 bps	\$50
SW-SSII-OP03	Integrated 10 Hz carrier phase measurements, default baud rate of 19,200 bps	\$250

ALLSTAR™ GPS RECEIVER OEM CARD

The **ALLSTAR** is a 12-channel, L1-only receiver with standard 1 Hz PVT output and optional support for SBAS. The ALLSTAR is available in a base station model and in a metal STARBOX enclosure. The development kits include a magnetic mount antenna, RF cable, interface cable, and AC adapter. Models with 4 Mb SRAM are required when selecting options OP07, OP09, or OP12.

ALLSTAR OEM Card

220-600944-003	ALLSTAR with 1 Mb SRAM	\$175
220-600944-019	ALLSTAR with 1 Mb SRAM and on-board rechargeable lithium battery	\$200
220-600944-041	ALLSTAR with 1 Mb SRAM and connector on reverse side	\$175
220-600944-050	ALLSTAR with 4 Mb SRAM and connector on reverse side	\$200
220-600944-053	ALLSTAR with 4 Mb SRAM	\$200
220-600944-057	ALLSTAR with 4 Mb SRAM and on-board rechargeable lithium battery	\$225

ALLSTAR Enclosure and Development Kit

100-600304-041	STARBOX enclosure containing ALLSTAR with 1 Mb SRAM	\$475
100-600304-050	STARBOX enclosure containing ALLSTAR with 4 Mb SRAM	\$500
241-600249-041	ALLSTAR development kit with STARBOX enclosure and 1 Mb SRAM	\$825

ALLSTAR Options

SW-AS-OP01	Integrated 1 Hz carrier phase measurements, default baud rate of 19,200 bps	\$50
SW-AS-OP03	Integrated 10 Hz carrier phase measurements, default baud rate of 19,200 bps	\$250
SW-AS-OP06	2 Hz position, velocity, and time output	\$150
SW-AS-OP07	5 Hz position, velocity, and time output ¹⁰	\$200
SW-AS-OP09	Integrated 5 Hz carrier phase measurements and 19,200 bps (only available with OP07 and OP12) ¹¹	\$100
SW-AS-OP12	Support for SBAS corrections ¹⁰	\$50

ALLSTAR DGPS Base Station

245-601944-103	ALLSTAR DGPS Base Station with RTCM-104 corrections	\$2,000
100-600304-100	STARBOX enclosure containing ALLSTAR DGPS Base Station with RTCM-104 corrections	\$2,300
241-600249-101	ALLSTAR DGPS Base Station development kit with STARBOX enclosure	\$2,700

¹⁰ An ALLSTAR with 4 Mb SRAM is required for this option.

¹¹ 5 Hz carrier phase measurements (OP09) are only available when both 5 Hz PVT (OP07) and SBAS support (OP12) are purchased and the ALLSTAR includes 4 Mb SRAM.

SMART ANTENNA™ RECEIVER/ANTENNA COMBINATION

The **SMART ANTENNA** is a 12-channel, L1-only integrated receiver and antenna. It is available in a variety of configurations, including an RS-232 or RS-422 interface, and includes a PPS output. Development kits are available and contain a SMART ANTENNA, a magnetic mount, and a cable with a DB-9 connector and automotive adapter.

RS-232 SMART ANTENNA with ALLSTAR

100-601903-522	White RS-232 SMART ANTENNA with 7-pin plastic connector	\$450
100-601903-542	White RS-232 SMART ANTENNA with 6-pin metal connector.....	\$495
100-601903-552	Green RS-232 SMART ANTENNA with 6-pin metal connector.....	\$495
241-601153-532	Development kit with white RS-232 SMART ANTENNA with plastic connector	\$595

RS-232 SMART ANTENNA Options

SW-SAA-OP01	Integrated 1 Hz carrier phase measurements, default baud rate of 19,200 bps.....	\$50
SW-SAA-OP07	5 Hz position, velocity, and time output.....	\$200
SW-SAA-OP09	Integrated 5 Hz carrier phase measurements and 19,200 bps (only available with OP07 and OP12) ¹² ..	\$100
SW-SAA-OP12	Support for SBAS corrections	\$50

RS-422 SMART ANTENNA with SUPERSTAR II

100-601911-002	White RS-422 SMART ANTENNA with 12-pin standard connector, 1 Mb SRAM, and 4 Mb flash.....	\$399
100-601911-012	White RS-422 SMART ANTENNA with 12-pin central cable mount, 1 Mb SRAM, and 4 Mb flash	\$399

RS-422 SMART ANTENNA Options

SW-SSII-OP01	Integrated 1 Hz carrier phase measurements, default baud rate of 19,200 bps.....	\$50
SW-SSII-OP02	Integrated 1 Hz carrier phase measurements, default baud rate of 9,600 bps.....	\$50
SW-SSII-OP03	Integrated 10 Hz carrier phase measurements, default baud rate of 19,200 bps.....	\$250

FLEXPAK-SSII™ GPS RECEIVER ENCLOSURE

The **FlexPak-SSII** is a 12-channel, L1-only waterproof receiver enclosure offering position output, real-time DGPS positioning, and support for NMEA and RTCM messages. It features two serial ports up to 38,400 bps and optional 1 or 10 Hz carrier phase measurements. A serial cable and an automotive power adapter are included with the FlexPak-SSII.

FLEXPAK-SSII-10CP-H....	Integrated 10 Hz carrier phase measurements, real-time DGPS, default baud rate of 19,200 bps.....	\$715
FLEXPAK-SSII-1CP-H....	Integrated 1 Hz carrier phase measurements, real-time DGPS, default baud rate of 19,200 bps.....	\$515
FLEXPAK-SSII-1CP	Integrated 1 Hz carrier phase measurements, real-time DGPS, default baud rate of 9,600 bps.....	\$515
FLEXPAK-SSII-STD	1 Hz PVT, default baud rate of 9,600 bps	\$465

¹² 5 Hz carrier phase measurements (OP09) are only available when both 5 Hz PVT (OP07) and SBAS support (OP12) are purchased.

SPECIALTY PRODUCTS



BLACK DIAMOND SYSTEM™ (BDS)

The **Black Diamond System (BDS)** combines the BDS Controller, a high-performance GPS receiver with INS processing, and the BDS Sensor containing an inertial measurement unit (IMU). NovAtel's BDS Processing Software is also provided for processing raw measurements collected by the BDS.

BDS	BDS Controller	\$25,000
BDS-IMU-11	BDS Sensor with 1 degree per hour IMU	\$20,000
BDS-IMU-17	BDS Sensor with 10 degree per hour IMU	\$10,000

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. The Euro-3M is also available with MEDLL multipath reduction technology combined with 8 L1/L2 channels and 1 L1 GEO channel.

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

L5-EURO-GEO™ GPS RECEIVER OEM CARD (AVAILABLE Q4 2004)

The **L5-Euro-GEO** 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.

L5-EURO-GEO	L5 OEM receiver in Eurocard format	\$10,497
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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
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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
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