The all new GPS600 is a commercial GPS receiver board which is programmed using “Open Source” code under the GNU General Public License see: http://www.gnu.org/licenses/ for more information.

The GPS600 receiver is designed to be used with a laptop or desktop PC running Windows or Linux. The board uses a standard USB to serial port converter IC so the communications to and from the receiver are through standard serial port commands. The GPS600 comes with the “RedBoot” mini OS already installed in flash memory.

The GPS receiver hardware is based on a Novatel SuperStar II board which has been modified with additional RAM memory for larger GPL-GPS program storage space. The GPS correlator and ARM microprocessor are combined into one IC, a GP4020 made by Zarlink Semiconductor. The GPS receiver is a plug-in assembly attached to the GPS600 USB Interface board. The GPS600 serial I/O interface uses a FTDI Integrated Circuit to communicate with the PC.

The GPS600 Receiver is ideal for a wide range of GPS applications including:

- Educational
- Engineering
- Scientific
- Research & Development
- Testing & Manufacturing

Innovative Features
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Software
The GPS600 Receiver is supplied with a working version of GPL-GPS software for ease of initial setup and operation. This software processes all 12 satellite channels simultaneously. The sample source code provided with the board shows things like pseudorange information, C/A code, sub-frame data, satellite position, tracking as well as some diagnostic information. Information on where to get the opensource compilers is included.

Applications
The GPS600 Receiver is ideal for a wide range of GPS applications including:

- Educational
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GPS Creations follows a policy of continuous product improvement; specifications and descriptions are therefore subject to change without notice. Please contact GPS Creations for the latest product information. Performance characteristics are subject to GPS system variables, US DOD operational degradation, ionospheric conditions, satellite geometry, signal multipath and assumes S/A is turned off.

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