

Date: Sept 24, 2009

High Sensitivity Mode press release

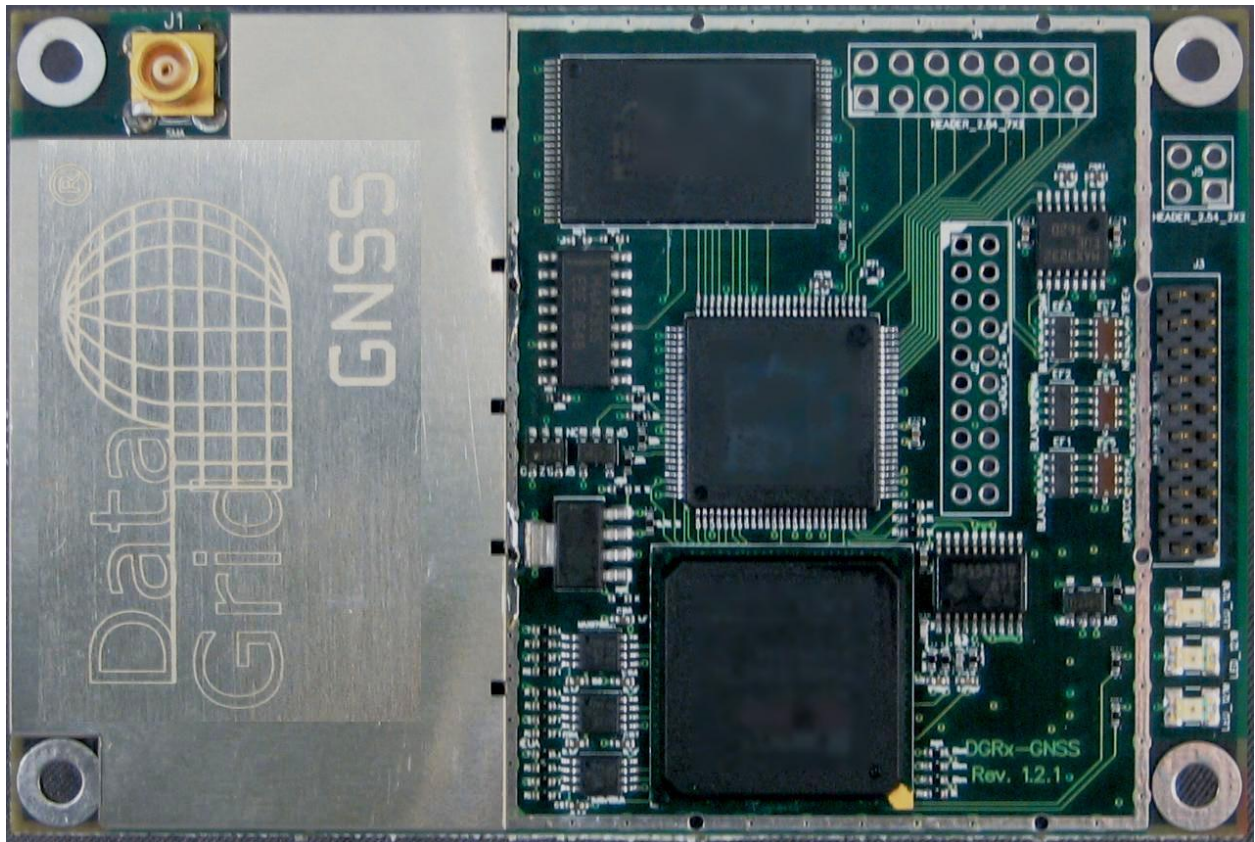
DataGrid, Inc., (Gainesville, Florida) releases a High Sensitivity mode for its 3rd generation programmable DGRx-GNSS receiver for OEM integrators. This mode allows the DGRx receiver to track the L1 and L2c codes transmitted by GPS satellites as well as L1 and L2c codes transmitted by GLONASS satellites down to a signal level of only 15 dbHz.

The high sensitivity mode allows the fix to be maintained in difficult environments where too few satellites give reliable carrier phase to normally allow carrier fix to be maintained. The way the highly decayed signals are used may be thought of as code phase assistance. To be used effectively, DataGrid uses the capability of its DGRx receiver to probe the reception conditions and estimate distortions in the weakened signal before it applies them in the positioning solution.

In conditions where good quality GPS coverage is totally absent the position accuracy degrades nearly to the level of other “indoors sensitivity” capable GPSs under similar conditions. Advantages over this class of receivers is that the DGRx tracks GLONASS as well as GPS and also has an error estimate scheme that reduces the effect of errors on the positioning determination.

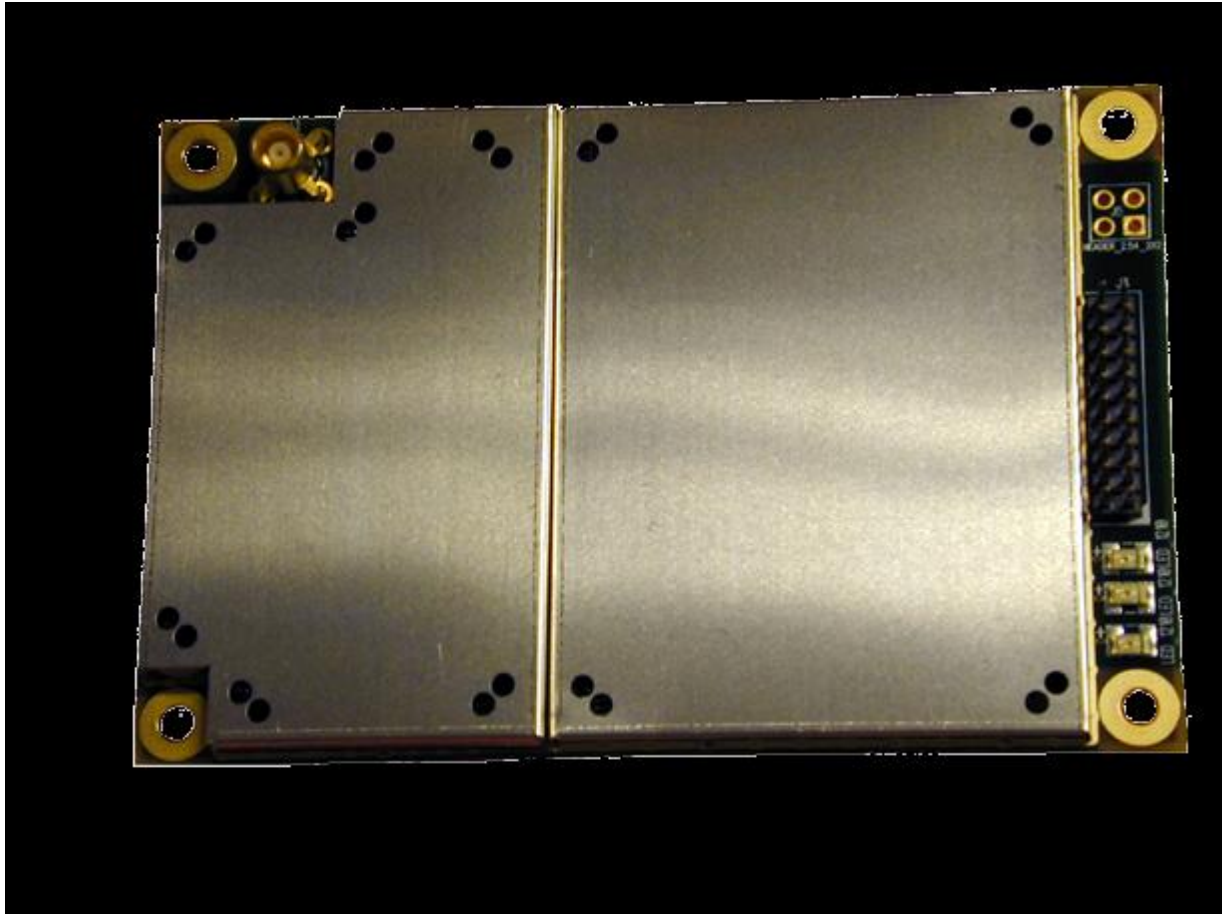
The High Sensitivity mode on the DGRx is most effective in environments where the reception is “spotty”. Examples of such environments with a mix of “good” and “bad” GNSS signals that the DGRx’s high sensitivity mode is well suited for includes urban canyons and especially under tree canopies.

DGRx-GNSS V3.0 is expected to be available in production quantities starting in the first quarter of 2010. Please contact DataGrid for more information.



DGRx with the digital section exposed.

Lat: N 29 39 42.318
Lon: W 82 19 36.863



DGRx fitted with full screens.