



## New Dual Frequency GL1DE Improves Performance in Challenging High Ionosphere Activity Environments and Improves the Position Accuracy and Smoothness of the Proven GL1DE Positioning Feature

### Benefits and Features

Position smoothing to provide accurate pass-to-pass performance in challenging environments

Available for Single Point, DGNSS, SBAS and L-Band VBS position modes

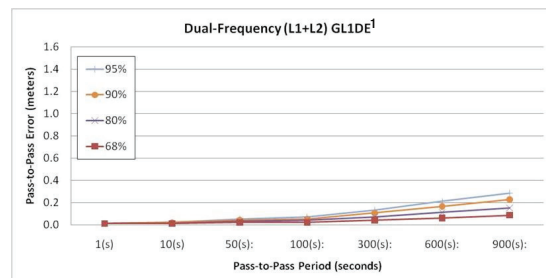
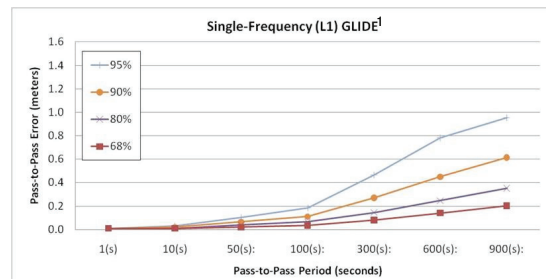
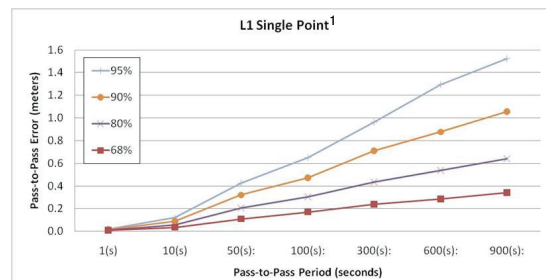
Runs with GPS-only or GPS + GLONASS modes

Works with single and dual frequency solutions

Ideal for agricultural and machine guidance systems

NovAtel's new dual frequency GL1DE technology adds to the superior pass-to-pass performance provided by GL1DE for applications, such as agricultural guidance, where relative positioning is critical. Using GL1DE significantly reduces the variation in position errors to less than 1 cm from one epoch to the next. Dual frequency GL1DE improves the absolute accuracy of the GL1DE position and creates a robust solution resistant to the effects of high ionospheric activity. GL1DE works in all code positioning modes, including single point, DGNSS, SBAS and L-Band (VBS).

The graphs below show the dramatic improvement in short term position stability for a single point solution using dual frequency GL1DE over the standard 15 minute time frame for pass-to-pass testing.



If you require more information about Firmware, visit [novatel.com/products/firmware-options](http://novatel.com/products/firmware-options)

<sup>1</sup> Typical values. Performance specifications subject to GPS system characteristics, US DOD operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.

Version 3 - Specifications subject to change without notice.  
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 For the most recent details of this product visit [novatel.com/products/firmware-options/gl1de](http://novatel.com/products/firmware-options/gl1de)



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