

G-Link[®]
V-Link[®]
SG-Link[®]
DVRT-Link[™]



High Speed Streaming

Overview

MicroStrain's V-Link[®], G-Link[®], SG-Link[®], SG-Link[®] OEM and DVRT-Link[™] wireless nodes are capable of sampling up to 4000 samples per second on a single channel and transmitting that data in real time to a host computer. The table below shows the sampling rates that are achievable using *high speed streaming*. The sampling rates are the number of samples per channel per second. As an example (see green box), if you enable 4 channels on the G-Link[®], each channel will be sampled at 1000 samples per second and all 4 channels' data will be transmitted in real time to the host.

Node Type	With 1 channel enabled	With 2 channels enabled	With 3 channels enabled	With 4 channels enabled	With 5 channels enabled	With 6 channels enabled	With 7 channels enabled	With 8 channels enabled
V-Link [®]	4 KHz	2 KHz	1.33 KHz	1 KHz	800 Hz	666 Hz	570 Hz	500 Hz
G-Link [®]	4 KHz	2 KHz	1.33 KHz	1 KHz				
SG-Link [®]	4 KHz	2 KHz	1.33 KHz					
SG-Link [®] OEM	4 KHz	2 KHz	1.33 KHz					
DVRT-Link [™]	4 KHz	2 KHz	1.33 KHz					

High Speed Streaming software

MicroStrain ships High Speed Streaming software in each wireless node's starter kit. This application allows you to immediately take advantage of high speed streaming. The software will operate the node and base station, graph data in real time, and write data to file, as shown in Figure 1. Additionally, the application will perform several FFT methods on a selected channel, as shown in Figure 2. The High Speed Streaming software can be run as a stand-alone application or run from within MicroStrain's Agile-Link or Node Commander[®] fully featured softwares.

A Quick Start Guide for the High Speed Streaming software can be downloaded at:
http://www.microstrain.com/pdf/2.4 GHz_high_speed_streaming_qs.pdf



Figure 1.

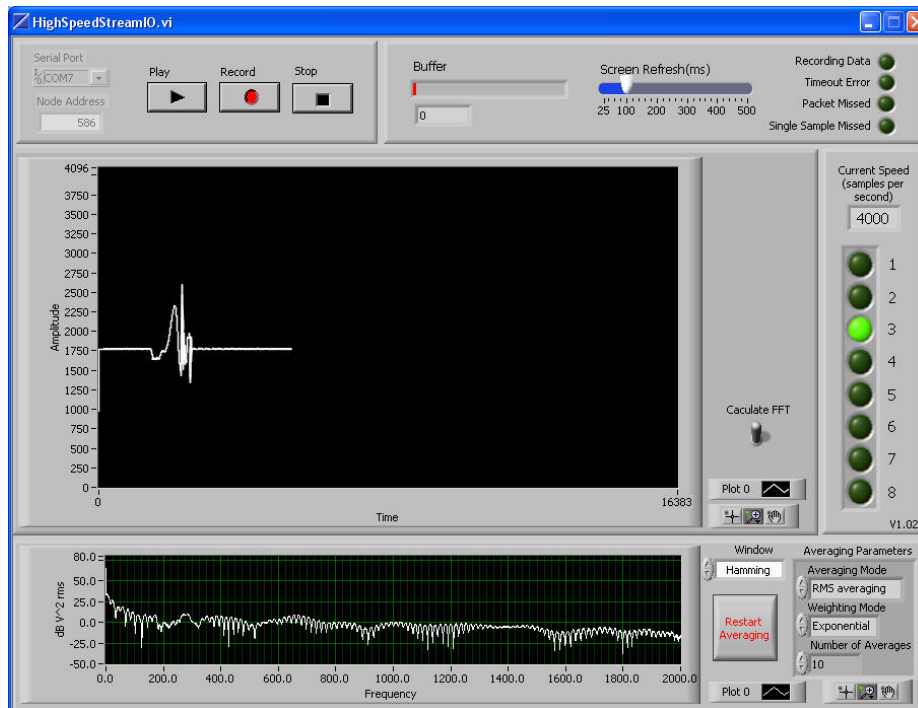


Figure 2.

Writing your own High Speed Streaming application

If you are writing your own software, you may also take advantage of the high speed streaming functions. MicroStrain makes available a complete Data Communication Protocol manual along with sample code. The protocol is completely operating system and platform independent, and you will be able to build robust high speed streaming applications to suit your particular needs. MicroStrain support engineers are always available to assist you in this regard.

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