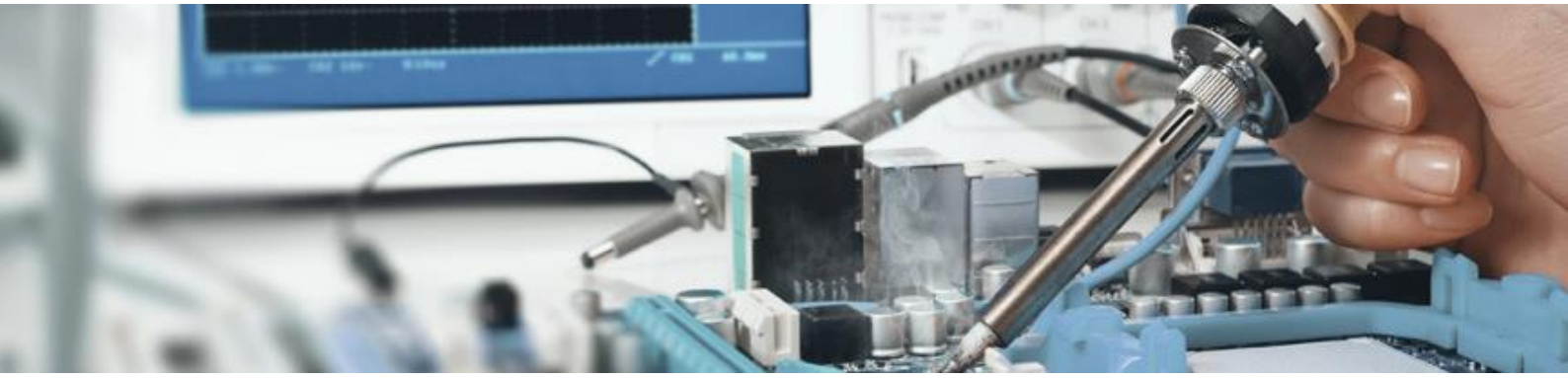
DATASHEET | GSS100 Databus Analyser



Powerful, Flexible Multi-Channel, Multi-Protocol

The product was designed to help engineers work more effectively through support and enhancement of the databus development and testing process. GSS100 is continually being developed and refined – providing time saving technology for the databus industry.

Software at your command

GSS100 has an impressive track record as a key element in major test projects, engineering system development, systems integration testing and aircraft ground support equipment programmes.

We have defined a common framework within which a range of powerful analysis tools can be developed to address the many needs of test engineers. This unique approach includes:

- An ability to define a test system consisting of multiple channels of mixed protocols
- An extensive “library” of modular test tools
- An ability for engineers to develop their own test tools to add to the library

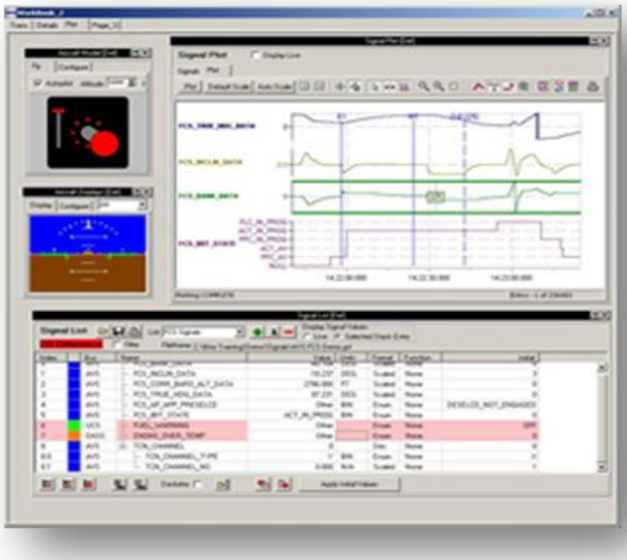
Key modules include:

GSS Signals

Powerful and Protocol Independent

Our Signals Module interprets the raw data and displays it as engineering units. They can either be based on standards, such as Arinc 429, or specifically defined by the user.

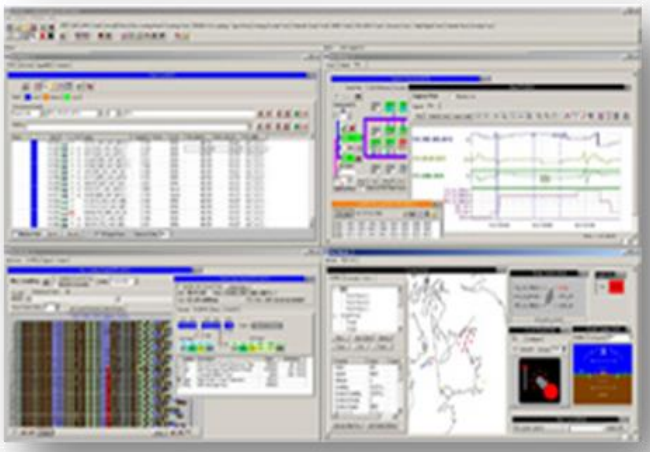
GSS Signals is protocol independent – giving the engineer the power to compare, manipulate and transfer data between channels and protocols while the bus is active and during recorded analysis.



GSS Graphical Tools

Powerful GUI Tools – Combining Specific and Common Protocols

Our powerful GUI facilities include databus analysis tools that allow the user to quickly view and understand the messages sent on the various channels – providing a clear picture of the loading levels, detected errors and timing information in a graphical format.



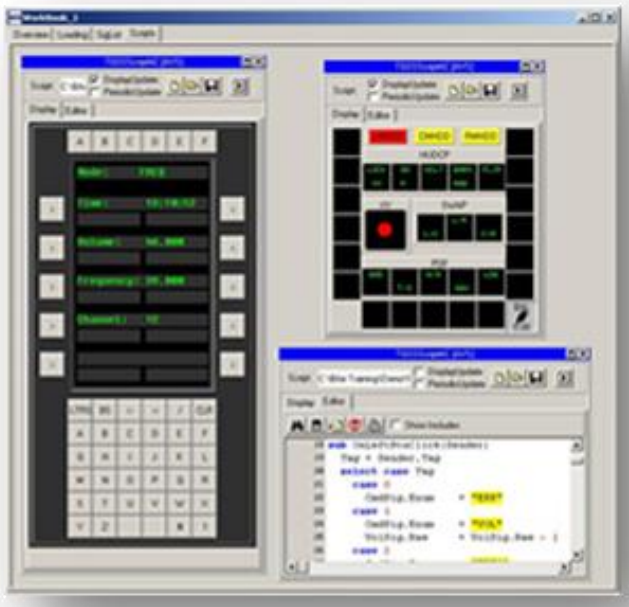
GSS Scripting

Take Control – Write Custom Tools and Simulations

GSS Scripts have the ability to create repeatable tests where any changes to the databus can be quickly identified and investigated.

Our scripts allow the user to design virtual panels and generate a range of graphical tools – including representations of cockpit controls or the visual display of the databus traffic.

GSS Scripts can also be used on recorded data – the user can generate complex analysis scripts for formal testing or during ad-hoc investigations.



GSS Engine

A Hierarchical Object Structure

The acclaimed GSS Engine provides a hierarchical object structure used by the GSS100 Application, its GUI Tools and the Scripting Tool. At the top level of the object structure is a collection of abstract IGSSChannels which represent the available databus channels managed by the engine.

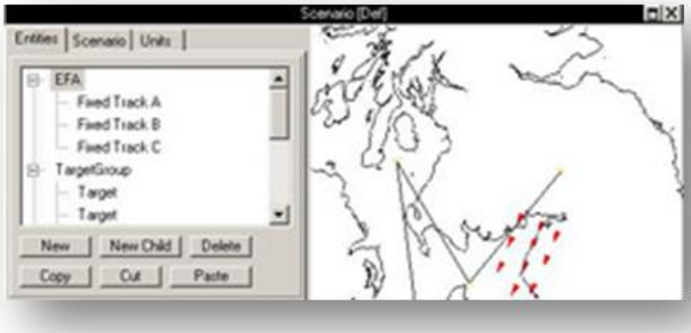
Using the ChannelType property of a channel the application can type cast each abstract IGSSChannel to the appropriate protocol channel type (e.g. IGSS1553 or IGSS429) this then enables all the protocol specific object behaviour to be accessed by the GSS100 application tools.

GSS Scenario Simulation

Visual Representation of Tracks, Waypoints and Routes

This optional function allows any number of dynamic tracks, waypoints, etc to be controlled from within the GS100 application.

By combining this tool with the Scripting capability, the scenario tool can be used to either display or stimulate databus signals.



Project Specific Tools

Customise GSS100 for your Project or Company

The modular architecture of GSS100 makes it possible to develop tool packages for a specific project or customer.

This example tool enables application software to be loaded over a 1553 or 3910 databus to multiple modules on multiple RTs simultaneously. This tool also permits errors to be injected into the loading protocol to test an RTs operation.