

Tools and Software

FreeMASTER

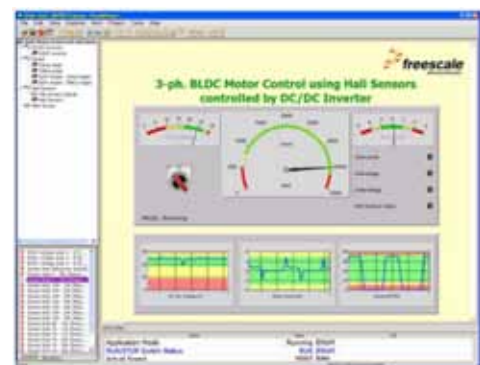
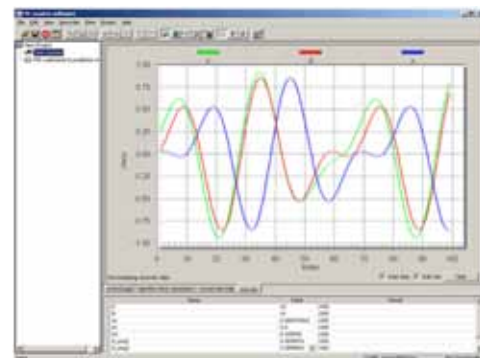
Real-time debug monitor and data visualization tool

Overview

FreeMASTER is a user-friendly real-time debug monitor and data visualization tool for application development and information management. Supporting non-intrusive variable monitoring on a running system, FreeMASTER allows the data from multiple variables to be viewed in an evolving oscilloscope-like display or in a common text format. FreeMASTER also supports additional capabilities and targets with an on-target driver for sending data from the target to the host computer. It also allows for user control of the embedded application, modification of the target application variables and start and stop execution.

The HTML-based data visualization area is highly extensible. The user can provide an arbitrary collection of ActiveX-based instrumentation gauges, dials, knobs and sliders to create custom visual dashboards as complex or elegant as desired. The data visualization area may also be used to display arbitrary information, such as presentations, help files and fact sheets.

Whether your design targets the automotive, industrial or consumer appliance markets, FreeMASTER provides the tools to monitor a system real-time, control the embedded application from a PC and demonstrate the advanced capabilities of your software on a Freescale solution.



Platform and Connection Support

	No Driver	Target Driver Required					
Processor	BDM	Packet-Driven BDM	Serial	CAN	USB	MQX™ IO	JTAG
S08	•	•	•	•			
Freescale DSC			•	•			•
Kinetis	•	•	•	•	•	•	
PX Series			•	•			
S12/S12X	•	•	•	•			
Qorivva			•	•			
ColdFire V1	•	•	•	•	•	•	
ColdFire V2	•	•	•	•	•	•	

Capabilities

Real-Time Monitoring: Watch multiple variables at individual sampling rates and chart up to eight in the oscilloscope view. Use the high-speed recorder (on target) for rapid processing.

Real-Time Control: Modify variables real-time. Send arbitrary application-defined commands to the hardware, as well as the customary stop and start.

Data Visualization: The visualization area enables use of third-party instrumentation components inserted into the HTML code as embedded ActiveX objects. This allows for creation of user-friendly display of complex real-time data dashboards.

Information Management: The HTML-based visualization area supports any HTML-based content. Use it with the Project Tree navigation pane to present demos, product information, collateral or any project-related data.

Applications

FreeMASTER is extremely useful for software development that requires real-time data access. Typical customers use FreeMASTER for:

- Motor control software (automotive, industrial)
- Sensor applications (automotive, consumer, industrial)
- Real-time data visualization of any system output
- Visualizing complex data (user-friendly interface design)

For more information, visit freescale.com/FreeMASTER



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