



APPLICATION NOTE

Cage Code: 06324	Document Description APPLICATION NOTE VERSALINK MICRO-D S-PARAMETER MODELS	Document #: AN0017 Revision: A Page 1 of 5
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**APPLICATION NOTE
VERSALINK MICRO-D S-PARAMETER MODELS**

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**APPLICATION NOTE
VERSALINK BRIDGE S-PARAMETER MODELS**

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REVISION HISTORY

REV	DATE	REVISED PAGES	AUTHOR	REVISIONS
A	11/28/2022		L. Blackwell	Initial Release

Disclaimer

Glenair, Inc makes no warranties, either expressed or implied, with respect to the circuit behavioral models described herein, including the warranties of merchantability or fitness for a particular purpose. The model is provided solely on an "as is" basis. The entire risk as to its quality and performance is with the customer.

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1.0 Purpose

This document describes the VersaLink Micro-D electrical behavioral models.

2.0 Reference Documents

Document Number/Name	Description
GT-19-230	VersaLink Micro-D High Speed Test Report
GVLM-BS	VersaLink Micro-D Straight Board Mount Connector Drawing
GVLM-BR	VersaLink Micro-D Right-Angle Board Mount Connector Drawing
GHS4-M	VersaLink Micro-D Wired Connector Drawing

Table 1. Reference Documents

3.0 Responsibility

This document is the responsibility of the Glenair High-Speed Datalink Group.

4.0 VersaLink Micro-D S-Parameters

4.1 Configurations

The S-parameter models were obtained through testing mated PCB mounted VersaLink connectors in addition to a wired VersaLink cable assembly. The electrical effects of the test PCB and test cabling were de-embedded from the models. Refer to Glenair Test Report GT-19-230 for detailed testing information. The resulting models consist of S-parameters in Touchstone formatted files. The following table delineates the three tested configurations and the resulting Touchstone files.

Configuration	Touchstone File
Straight Board Mount	GVLM BS-BS.s4p
Right-angle Board Mount	GVLM BR-BR.s4p
Cable Assembly	GVLM CABLE ASSEMBLY.s4p
Cable Assembly to Straight Board Mount	GVLM CABLE-PLUG TO BOARD ST-RECEPTACLE.s4p
Cable Assembly to Right-angle Board Mount	GVLM CABLE-PLUG TO BOARD RA-RECEPTACLE.s4p

Table 2. Test Configuration to Touchstone File Mapping

4.2 VersaLink Micro-D S-parameter Model Package

The following files are supplied as attachments to this document.

1. Touchstone file GVLM BS-BS.s4p
2. Touchstone file GVLM BR-BR.s4p
3. Touchstone file GVLM CABLE ASSEMBLY.s4p
4. Touchstone file CABLE-PLUG TO BOARD ST-RECEPTACLE.s4p
5. Touchstone file CABLE-PLUG TO BOARD RA-RECEPTACLE.s4p

4.3 Port Assignments

The Touchstone files utilize the following port assignments:

