



APPLICATION NOTE

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

APPLICATION NOTE VERSALINK MICRO-D S-PARAMETER MODELS

THIS COPYRIGHT DOCUMENT IS THE PROPERTY OF GLENAIR INC. AND IS FURNISHED ON THE EXPRESS CONDITION IT IS NOT TO BE DISCLOSED, PRODUCED IN WHOLE OR PART, OR USED TO SOLICIT QUOTATIONS FROM COMPETITIVE SOURCES, OR USED FOR MANUFACTURE BY ANYONE OTHER THAN GLENAIR INC. WITHOUT THE WRITTEN PERMISSION OF GLENAIR INC. THE INFORMATION HEREIN HAS BEEN DEVELOPED AT PRIVATE EXPENSE AND MAY BE USED FOR THE PURPOSES OF ENGINEERING EVALUATION AND FOR INCORPORATION INTO TECHNICAL SPECIFICATIONS AND OTHER DOCUMENTS WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM GLENAIR INC.



1211 AIRWAY, GLENDALE, CALIFORNIA 91201

APPLICATION NOTE VERSALINK BRIDGE S-PARAMETER MODELS

CODE NUMBER 06324	SIZE A		REV. B
SCALE N/A			

Cage Code: 06324	Document Description APPLICATION NOTE VERSALINK MICRO-D S-PARAMETER MODELS	Document #: AN0017 Revision: B Page 2 of 5
-------------------------	--	--

REVISION HISTORY

REV	DATE	REVISED PAGES	AUTHOR	REVISIONS
A	11/28/2022		L. Blackwell	Initial Release
B	8/6/2024		L. Blackwell	Updated touchtone links of table 2

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.

Cage Code: 06324	Document Description APPLICATION NOTE VERSALINK MICRO-D S-PARAMETER MODELS	Document #: AN0017 Revision: B Page 3 of 5
-------------------------	--	--

Table of Contents

1.0 Purpose 4

2.0 Reference Documents..... 4

3.0 Responsibility 4

4.0 VersaLink Micro-D S-Parameters 4

 4.1 Configurations 4

 4.2 Port Assignments 5

Cage Code: 06324	Document Description APPLICATION NOTE VERSALINK MICRO-D S-PARAMETER MODELS	Document #: AN0017 Revision: B Page 4 of 5
---------------------	--	--

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

In addition to direct downloadable links from the table above, the files of Table 2 are supplied as attachments to this document.

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

4.2 Port Assignments

The Touchstone files utilize the following port assignments:

