APPLICATION NOTE

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APPLICATION NOTE
GLENAIR HD STACKER S-PARAMETER MODELS

REVISION HISTORY

REV	DATE	REVISED PAGES	AUTHOR	REVISIONS
A	7/29/2020		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 High-Density (HD) Stacker electrical behavioral models.

2.0 Referenced Documents

Document Number/Name	Description
GT-17-131	High Density Stacker High Speed Test Report Rev D
GSTBL	High Density Stacking (HDS) Board to Board Connector
HDS_GSGSG.S4P	High Density Stacker Touchstone File
HDS_GSSG.S4P	High Density Stacker Touchstone File
HDS_DGSSG.S4P	High Density Stacker Touchstone File

Table 1. Reference Documents

3.0 Responsibility

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

4.0 HD Stacker S-Parameters

4.1 Configurations

The S-parameter models were obtained through testing a mated pair of HD stacker connectors (part numbers GSTBL-120-.270-G1 and GSTB-120-.095-G1). The resulting models consist of S-parameters in Touchstone formatted files. Refer to Glenair Test Report GT-17-131 for detailed testing information. The following table delineates the three tested configurations and the resulting Touchstone files.

Configuration	Touchstone File
GSGSG	HDS_GSGSG.S4P
GSSG	HDS_GSSG.S4P
DGSSG	HDS_DGSSG.S4P

Table 2. Test Configuration to Touchstone File Mapping

4.2 HD Stacker S-parameter Model Package

The following files are supplied as attachments to this document.

1. Test report GT-17-131
2. Touchstone file HDS_GSGSG.S4P
3. Touchstone file HDS_GSSG.S4P
4. Touchstone file HDS_DGSSG.S4P

4.3 Port Assignments

The Touchstone files utilize the following port assignments: