



APPLICATION NOTE

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**APPLICATION NOTE
EL OCHITO WHITE S-PARAMETER MODELS**

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REVISION HISTORY

REV	DATE	REVISED PAGES	AUTHOR	REVISIONS
A	11/29/2023		L. Blackwell	Initial Release

Disclaimer

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1.0 Purpose

This document describes the El Ochito Blue, board connector to board connector and cable to cable, electrical behavioral models.

2.0 Referenced Documents

Document Number/Name	Description
GT-23-169	El Ochito White High Speed Test Report
792-001	Datalink Plug Connector Drawing, Socket Contacts, Series 792
792-002	Datalink Receptacle Connector Drawing, Pin Contacts, Series 792
792-005	Vertical PCB Mount Plug Connector Drawing, El Ochito Socket Contacts, Series 792
792-006	Vertical PCB Mount Receptacle Connector Drawing, El Ochito Pin Contacts, Series 792
792-009	Right Angle PCB Mount Plug Connector Drawing, El Ochito Socket Contacts, Series 792
792-010	Right Angle PCB Mount Receptacle Connector Drawing, El Ochito Pin Contacts, Series 792

Table 1. Reference Documents

3.0 Responsibility

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

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4.0 El Ochito Blue S-Parameters

4.1 Configurations

The S-parameter models were obtained through testing PCB mounted straight connectors (part numbers 792-006PA-1P1MNAA and 792-005SA-1P1MNAA) and PCB mounted right angle connectors (part numbers (792-010PA-1P1MENAA and 792-009SA-1P1MNAA). The test cable assemblies were also tested that consisted of a Series 792 plug connector, part number 792-001SA-1W1MN, with 858-045 contacts, and a Series 792 receptacle connector, part number 792-002PA-1W1MNN, with 858-046 contacts. The electrical effects of the test PCB and test cabling were de-embedded from the models. Refer to Glenair Test Report GT-23-169 for detailed testing information. The resulting models consist of S-parameters in Touchstone formatted files. The following table delineates the tested configurations and the resulting Touchstone files.

Configuration	Touchstone File
Straight PCB to Straight PCB	El Ochito White Straight to Straight.s4p
Right-angle PCB to Right-angle PCB (short pair)	El Ochito White Right-angle to Right-angle (Positions 1-2 7-8).s4p
Right-angle PCB to Right-angle PCB (long pair)	El Ochito White Right-angle to Right-angle (Positions 3-4 5-6).s4p
Cable Assembly to Cable Assembly	El Ochito White Cable to Cable.s4p
Straight PCB to Right-angle PCB	El Ochito White Straight to Right-angle.s4p
Straight PCB to Cable Assembly	El Ochito White Straight to Cable.s4p
Right-Angle PCB to Cable Assembly	El Ochito White Right-angle to Cable.s4p

Table 2. Test Configuration to Touchstone File Mapping

4.2 S-parameter Model Package

The following files are supplied as attachments to this document.

1. El Ochito White Straight to Straight.s4p
2. El Ochito White Right-angle to Right-angle (Positions 1-2 7-8).s4p
3. El Ochito White Right-angle to Right-angle (Positions 3-4 5-6).s4p
4. El Ochito White Cable to Cable.s4p
5. El Ochito White Straight to Right-angle.s4p
6. El Ochito White Straight to Cable.s4p
7. El Ochito White Right-angle to Cable.s4p

4.3 Port Assignments

The Touchstone files utilize the following port assignments:

