



**APPLICATION NOTE**

Cage Code:  06324	Document Description APPLICATION NOTE EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 1 of 6
-------------------------	--	--

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

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

Cage Code: 06324	Document Description APPLICATION NOTE EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 2 of 6
---------------------	--	--

## REVISION HISTORY

REV	DATE	REVISED PAGES	AUTHOR	REVISIONS
A	11/29/2023		L. Blackwell	Initial Release
B	4/17/2024		L. Blackwell	Consolidated Sections 4.1 and 4.2 with updated parameter table
C	5/22/2024		L. Blackwell	Updated touchtone links of table 2
D	2/13/2025		L. Blackwell	Updated pair length verbiage per DCN104355

## 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.

This copyrighted document is the property of Glenair Inc and is furnished on the condition that it will not be disclosed, reproduced in part or whole or used to solicit quotations from competitive sources without the written permission of Glenair, Inc.

Cage Code:  06324	Document Description APPLICATION NOTE EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 3 of 6
-------------------------	--	--

## Table of Contents

1.0	Purpose .....	4
2.0	Referenced Documents .....	4
3.0	Responsibility .....	4
4.0	El Ochito White S-Parameters .....	5
4.1	Configurations .....	5
4.2	Port Assignments .....	6

Cage Code: 06324	Document Description APPLICATION NOTE EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 4 of 6
---------------------	--	--

## 1.0 Purpose

This document describes the El Ochito White, 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.

Cage Code: 06324	Document Description APPLICATION NOTE EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 5 of 6
---------------------	--	--

## 4.0 El Ochito White 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	<a href="#">El Ochito White ST to ST.s4p</a>
Right-angle PCB to Right-angle PCB (short pair)	<a href="#">El Ochito White RA to RA (short pair).s4p</a>
Right-angle PCB to Right-angle PCB (long pair)	<a href="#">El Ochito White RA to RA (long pair).s4p</a>
Cable Assembly to Cable Assembly	<a href="#">El Ochito White CA to CA.s4p</a>
Right-angle PCB to Straight PCB (short pair)	<a href="#">El Ochito White RA to ST (short pair).s4p</a>
Right-angle PCB to Straight PCB (long pair)	<a href="#">El Ochito White RA to ST (long pair).s4p</a>
Straight PCB to Cable Assembly	<a href="#">El Ochito White ST to CA.s4p</a>
Right-angle PCB to Cable Assembly (short pair)	<a href="#">El Ochito White RA to CA (short pair).s4p</a>
Right-angle PCB to Cable Assembly (long pair)	<a href="#">El Ochito White RA to CA (long pair).s4p</a>

**Table 2. Test Configuration to Touchstone File Mapping**

There are two files in the table above associated with each right-angle configuration. Due to the physical layout of the right-angle connector, pair positions 1/2 and 7/8 are longer than pair positions 3/4 and 5/6.

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 EL OCHITO WHITE S-PARAMETER MODELS	Document #: AN0026 Revision: D Page 6 of 6
---------------------	--	--

## 4.2 Port Assignments

The Touchstone files utilize the following port assignments:

