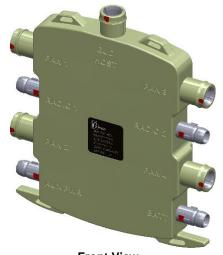


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QUALIFICATION TEST REPORT ABSTRACT FOR STAR-PAN™ VI DATA AND POWER 6 PORT HUB 808-037

REPORT NO. GT-20-276 ABSTRACT



Front View
6 Port Hub Gen 1.5

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Rear View
6 Port Hub, Gen 1.5

PREPARED BY:	Date: 12/3/2021
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QUALIFICATION TEST REPORT STAR-PAN™ VI 6 Port Hub, Gen 1.5

Part No. 808-037

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1.0 Product Description/Application

Glenair 808-037 STAR-PAN™ VI 6 Port Hub gen 1.5 is a USB hub with integrated power management functions for supplying power to connected devices. Its rugged construction is intended for tactical applications in hostile environments. The 6 Port Hub, subjected to a series of EMI tests, is designed to meet the requirements of MIL-STD-461G while utilizing lightweight aluminum alloy housing and high conductivity gold plated copper alloy contacts.

1.1 **Purpose**

Testing was performed on Glenair 808-037 STAR-PAN™ VI 6 Port Hub gen 1.5 to determine its conformance to the performance requirements of MIL-STD-461G.

1.2 Scope

This report summarizes the qualification testing of STAR-PAN™ 6 Port Hub gen 1.5 per Qualification Test Report (QTP) 045316. The information in this report was obtained from tests conducted by DNB Engineering, Inc. and Glenair. The documents listed below are on file at Glenair and are available upon request.

Applicable Test Reports		
Test Report Number	Provider	Date Tested
21200R1LQV2	DNB Engineering, Inc.	3/27/2020
GT-21-438	Glenair Inc.	7/19/2019

1.3 Conclusion

Glenair STAR-PAN™ VI 6 Port Hub gen 1.5 has been shown to be capable of meeting performance requirements of MIL-STD-461G, CS101, RE101 and 102, and RS 101.

1.4 **Test Specimen**

Test Sample Description				
Description	Part Number	Serial Number		
6 Port Hub gen 1.5	808-037	000305		

1.5 **Inspection Procedure**

Work benches and operators grounded per ANSI/ESD S20.20.



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2.0 Qualification Test Summary

Qualification Test Summary				
Test Description	Abstract Reference	Results		
Conducted Susceptibility, power leads (CS101)	2.1.1	Passed		
Radiated Emissions, magnetic field (RE101)	2.1.2	Passed		
Radiated Emissions, electric field (RE102)	2.1.3	Passed*		
Radiated Susceptibility, magnetic field (RS 101)	2.1.4	Passed		

2.1 Qualification Testing Details

2.1.1 Conducted Susceptibility, power leads

Test Method

MIL-STD-461G, CS101

Performed in the frequency range of $30~\mathrm{Hz}-150~\mathrm{kHz}$ while the EUT was in normal operational condition.

Requirement

When subjected to audio frequency to induce conducted susceptibility, the EUT maintains normal "Xfer Rate(MBPS)" operation according to USB Streamer software.

Results

PASS. PN 808-037, SN 000305 did not exhibit errors or failures throughout the frequency band.

Test Anomalies/Deviations

N/A

2.1.2 Radiated Emissions, magnetic field

Test Method

MIL-STD-461G, RE101

Performed in the frequency range of 30 Hz - 100 kHz while the EUT was in normal operational condition.

Requirement

When subject to maximum energy radiation emissions generated by the USB Streamer software, the EUT must maintain normal "Xfer Rate(MBPS)" operation and does not exceed emission limit levels specified in RE 101.

Results

PASS. PN 808-037, SN 000305 did not exhibit errors or failures throughout the frequency band and its magnetic field emissions were below the limit level specified in RE101.

Test Anomalies/Deviations

N/A



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2.1.3 Radiated Emissions, electric field

Test Method

MIL-STD-461G, RE102

Performed in the frequency range of 10 kHz – 18 GHz while the EUT was in normal operational condition.

Requirement

During data transfer initiated by the USB Streamer software, the EUT must maintain normal "Xfer Rate(MBPS)" operation and not exceed the emission limit levels specified in RE102. Results

PASS.* PN 808-037, SN 000305 did not exhibit errors or failures throughout the frequency band and its electric field emissions measured during the test were below the limit level specified in RE102. See Test Anomalies/Deviations below for more details.

Test Anomalies/Deviations

Radiated emissions exceeding the limit level by approximately 0.5dB – 1.5dB at 1.2MHz – 1.8MHz for the antenna band and exceeding emissions levels in both vertical and horizontal positions during initial testing were determined to be caused by test support equipment noises. Please refer to listed DNB report for further details regarding this equipment. Once the shields on the external cables were improved, the EUT met passing criteria.

2.1.4 Radiated Susceptibility, magnetic field

Test Method

MIL-STD-461G, RS101

Performed in the frequency range of 30 Hz – 100 kHz while the EUT was in normal operational condition.

Requirement

When subjected to a magnetic field radiation, the EUT must maintain normal "Xfer Rate(MBPS)" operation.

Results

PASS. PN 808-037, SN 000305 did not exhibit any errors or failures throughout the frequency band.

Test Anomalies/Deviations

N/A