CERTIFICATION TEST REPORT

Manufacturer: Avnet Inc.

2211 South 47th Street

Phoenix, Arizona 85034 USA

Applicant: Same as Above

Product Name: Azure Sphere MT3620 Modules

Product Description: Microsoft Azure Sphere certified Wi-Fi SoC module for highly-

secured IoT applications (Dual UFL connector version for external antennas, RX and TX diversity and Industrial

temperature operating range)

Operating

Voltage/Frequency: USB-powered

Model: AES-MS-MT3620-M-G

FCC ID: 2AF62-AVT3620C

Testing Commenced: Mar. 11, 2019

Testing Ended: Apr. 9, 2019

Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem

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it non-compliant.

Standards:

KDB447498

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Evaluation Conducted by:

Julius Chiller, EMC/Wireless Engineer

G2Ball

Report Reviewed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

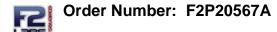
1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P20567A-06E	First Issue	Apr. 9, 2019	K. Littell

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2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None

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Client: Avnet Inc.

Model: AES-MS-MT3620-M-G

3 ENGINEERING STATEMENT

This report has been prepared on behalf of Avnet Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.

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Client: Avnet Inc.

Model: AES-MS-MT3620-M-G

4 **EUT INFORMATION AND DATA**

4.1 **Equipment Under Test:**

Product: Azure Sphere MT3620 Modules

Model: AES-MS-MT360-M-G Serial No.: 0002B501E625 FCC ID: 2AF62-AVT3620C

4.2 **Trade Name:**

Avnet Inc.

4.3 **Power Supply:**

USB Powered

4.4 **Applicable Rules:**

CFR 47, Part 15.407

4.5 **Equipment Category:**

Radio Transmitter-DTS

4.6 Antenna:

2.2dBi Gain Integral Antenna

4.7 Accessories:

PC: Dell 15-3000, ser. no. 8486780294

Charger: Dell OKXITW

4.8 **Test Item Condition:**

The equipment to be tested was received in good condition.

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Client: Avnet Inc. Model: AES-MS-MT3620-M-G

5. RF EXPOSURE FOR DEVICE > 20cm FROM HUMAN

5.1 **Requirements:** Distance used is 20cm

> Limit: 1mW/cm²

Formula used for result: E.I.R.P. 4 π R²

Results: E.I.R.P. = 27.6mW

27.6mW at the 5180 MHz Low Channel

which is the highest.

 $27.6 \text{mW} = 27.6 \text{mW} = 0.0055 \text{mW/cm}^2$

4 π R² 5026.55

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