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**Middlefield, Ohio 44062**  
**United States of America**  
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## **CERTIFICATION TEST REPORT**

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**Manufacturer:** Avnet Inc.  
2211 South 47<sup>th</sup> 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 it non-compliant.

**Standards:**

- KDB447498



Order Number: F2P20567A-R1

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

**Evaluation Conducted by:**

Julius Chiller, EMC/Wireless Engineer

**Report Reviewed by:**

Ken Littell, Director of EMC & Wireless Operations

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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-R1-03E	First Issue	June 3, 2020	K. Littell



## 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



Order Number: F2P20567A-R1

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.



#### 4 EUT INFORMATION AND DATA

##### 4.1 Equipment Under Test:

Product: Azure Sphere MT3620 Modules  
Model: AES-MS-MT360-M-G  
Serial No.: 0002B501E625  
Firmware: Azure Sphere Client API Ver. 19.02.4.2632  
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:

5.2dBi 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.



**5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN**

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

**Limit:** 1mW/cm<sup>2</sup>

**Formula used for result:**  $\frac{E.I.R.P.}{4 \pi R^2}$

**Results:** E.I.R.P. = 86.7mW

86.7mW at the 5320 MHz High Channel  
which is the highest.

$$\frac{86.7mW}{4 \pi R^2} = \frac{86.7mW}{5026.55} = 0.017mW/cm^2$$