RF EXPOSURE REPORT

FCC ID: PJZ5228XG

Test Report No……..:	RF240730014-01-003
Product(s) Name……...:	XGSPON ONT
Model(s)……..:	5228XG
Trade Mark……....:	DZS
Applicant……..…:	DZS Inc.
Address……..…...:	5700 Tennyson Parkway, Plano, TX 75024 USA
Receipt Date……..:	2024.07.31
Test Date……....:	2024.08.02~2024.08.09
Issued Date……..…:	2024.08.12
Standards……:	FCC Guidelines for Human Exposure IEEE C95.1
	FCC Title 47 Part 2.1091
	KDB 447498 D01 General RF Exposure Guidance v06
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Black Ding	Tim Zhang	Misue Su	Shenzhen Haiyun Standard Technical Co., Ltd. HAIYUN Report Seal
Black Ding	Tim.zhang	Misue Su	

History of this test report

Amendment Report Issue Date: 2024.08.12

○ No additional attachment

● Additional attachments were issued following record

Attachment No.	Issue Date	Description
FA332120-01	2023.07.25	Original report
RF240730014-01-003	2024.08.12	Compared with original report (FA332120-01), reduce one heat sink, change size of remaining two heat sinks and appearance of product.

1.. MPE CALCULATION METHOD

Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 2.4GWiFi

Antenna gain			Antenna Type
Ant0: 3.51dBi	Ant1: 3.67dBi	Ant2: 3.47dBi	PCB antenna

For 5GWiFi:
5150-5250MHz

Antenna gain				Antenna Type
Ant0: 4.50dBi	Ant1: 4.55dBi	Ant2: 4.55dBi	Ant3: 4.41dBi	PCB antenna

5250-5350MHz

Antenna gain				Antenna Type
Ant0: 4.50dBi	Ant1: 4.61dBi	Ant2: 4.55dBi	Ant3: 4.44dBi	PCB antenna

5470-5725MHz

Antenna gain				Antenna Type
Ant0: 4.52dBi	Ant1: 4.61dBi	Ant2: 4.57dBi	Ant3: 4.53dBi	PCB antenna

5725-5850MHz

Antenna gain				Antenna Type
Ant0: 4.52dBi	Ant1: 4.54dBi	Ant2: 4.46dBi	Ant3: 4.37dBi	PCB antenna

2.. TEST RESULTS

Test result: PASS
For Test data, Please refer to original report(FA332120-01).

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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(END OF REPORT)