

Date: January 15, 2025

FCC ID: 2A4O3-ORION

Model Number: ORION ONE GNSS Receiver, Z1, E3, L1, L1 PRO, Orion ONE Lite Laser, Orion ONE Lite AR

To: Federal Communication Commission
Authorization and Evaluation Division 7435 Oakland Mills Road
Columbia, MD 21048

Subject: Extend Frequencies Justification Original Application **FCC ID: 2A4O3-ORION**

To Whom It May Concern,

This GNSS Receiver was designed to operate in the frequency bands 410 – 470 MHz;
To aid equipment authorization in other countries that accepts the United States FCC Grant for Certification, **SingularXYZ Intelligent Technology Ltd.** is requesting that the FCC list the frequencies 410 – 470 MHz under FCC rules Part 90 and the Grant note code “EF”. For FCC’s Rule Part 90 applications this radio is used in systems by Federal and Public Safety agencies including Police, Fire, and Emergency Medical Services. Etc. as indicated in the table below. Equipment programming is the responsibility of Authorized Service Personal. Also, the radio complies with 47 CFR Part 90.203 (e), in that the operator cannot directly program the transmit frequencies using the normally accessible external controls.

Per the FCC’s KDB 634817 guidance, as an alternative to listing the exact frequencies, we acknowledge that it’s a violation of the FCC Rules if this device operates on unauthorized frequencies.

Frequency Rang [MHz]	Part 22	Part 74	Part 80	Part 90	Federal
410 – 450				X	
450 – 454		X			
454 – 456		X			
456 – 460	X		X	X	
460 – 462.5375				X	X
462.5375 – 462.7375*					X
462.7375 – 467.5375			X	X	
467.5375 – 467.7375			X		
467.7375 – 470			X	X	

Should you have any questions or comments regarding this matter, please have my best attention.

SingularXYZ Intelligent Technology Ltd.

Floor 2, Building A, No. 599 Gaojing Road, Shanghai 201702, China

Sincerely,



(Signed)

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