

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL
(Nature of Service)

XT MO
(Class of Station)

WM2XNB
(Call Sign)

0289-EX-CR-2026
(File Number)

NAME AeroVironment, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(J) of the Commission's Rules

Station Locations

- (1) MOBILE: Ground Based Locations with 12km center, within 12 km, centered around NL 35-07-22; WL 119-23-53
- (2) MOBILE: Airborne UAS Operations 12km center 152m AGL, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency Information

MOBILE: Ground Based Locations with 12km center, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2230 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2230 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2265 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %

This authorization effective May 01, 2026 and
will expire 3:00 A.M. EST May 01, 2028

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

MOBILE: Ground Based Locations with 12km center, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2265 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2271 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2271 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2276 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2276 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2283 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2283 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2285 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2285 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2380-2385 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %

Frequency Information

MOBILE: Ground Based Locations with 12km center, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2380-2385 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2412 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2412 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2420 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2420 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2430 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2430 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2440 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2440 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2445 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %

Frequency Information

MOBILE: Ground Based Locations with 12km center, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2445 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %
2448 MHz	MO	4M68G7W	19.282 W (ERP)	0.00005 %
2448 MHz	MO	4M68G7W	19.282 W (ERP)	0.00012 %

MOBILE: Airborne UAS Operations 12km center 152m AGL, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2230 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2230 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2265 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2265 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2271 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2271 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %

Frequency Information

MOBILE: Airborne UAS Operations 12km center 152m AGL, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2276 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2276 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2283 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2283 MHz	MO	1M56G7N	9.666 W (ERP)	0.00012 %
2285 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2285 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2380-2385 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2380-2385 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2412 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2412 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %

Frequency Information

MOBILE: Airborne UAS Operations 12km center 152m AGL, within 12 km, centered around NL 35-07-22; WL 119-23-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2420 MHz	MO	1M56G3W	9.666 W (ERP)	0.00012 %
2420 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2430 MHz	MO	1M56G7W 1M56G7W	9.666 W (ERP)	0.00005 %
2430 MHz	MO	4M68G7W	9.666 W (ERP)	0.00012 %
2440 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2440 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2445 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %
2445 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2448 MHz	MO	1M56G7W	9.666 W (ERP)	0.00012 %
2448 MHz	MO	1M56G7W	9.666 W (ERP)	0.00005 %

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC) who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the WAFC as necessary to ensure compatibility with existing uses.
- (3) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), the experimental licensee must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (4) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating stations. Aerovironment, Inc. should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down. Aerovironment, Inc. should also be aware that long-term or multiple-location use of the requested frequency band may not be possible, and Aerovironment, Inc. shall have no expectations that future requests for operational use of this frequency band will be approved.
- (5) All mobile operations in the 2200-2290 MHz band are limited to line-of-sight operations only.
- (6) The 2200-2290 MHz band shall not be used to develop high-density mobile systems.
- (7) Aerovironment, Inc. shall pre-coordinate airborne use of this system in the 2200-2290 MHz band with agencies owning earth stations listed in Section 8.3.15 of the NTIA Manual whenever the system operates from an airborne platform within 880 km (546.8 mi) of such stations (the predetermined coordination distance specified in Appendix 7 of the ITU Radio Regulations (Table 10)).
- (8) USE OF THIS FRQ OR BAND UNDER THE AUTHORITY OF THIS ASSIGN IS SUBJECT TO FURTHER COORDINATION WITH THE WAFC, AS NECESSARY TO ENSURE COMPATIBILITY WITH THE EXISTING USES.
DOD Western Area Frequency Coordinator
(WAFC)
130 Easy RoadStop, 3008
Bldg. 31454, Room 230
China Lake, CA 93555-6109
COM: (760) 939-6832 DSN: 437-6832
COM STE: (760) 939-0384 DSN STE: 437-0384
- (9) DURING TRANSMISSION, AIRCRAFT SHALL NOT EXCEED THE 500 FEET ALTITUDE.
- (10) THIS ASSIGNMENT IS ON A NONINTERFERENCE BASIS TO THE OPERATIONS OF NASA BERKELEY,CA, NASA LONG BEACH, CA, NASA GOLDSTONE,CA, NASA ARC,CA ON THE SAME OR ADJACENT CHANNEL AND NO PROTECTION CAN BE AFFORDED BY THAT AGENCY.
- (11) Stop Buzzer is Omer Yingling.
Telephone: 805-791-1894
Email: Yingling@avinc.com