

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WP9XZA

(Call Sign)

XT MO

(Class of Station)

0119-EX-ST-2020

(File Number)

NAME Xwing

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Grant of the instant request for STA for the 4.4GHz band would serve the public interest by enabling Xwing to experiment with hardware and software solutions to support unmanned

Station Locations

- (1) MOBILE: Within the requested radius, within 30 km, centered around NL 38-00-16; WL 121-48-16

Frequency Information

MOBILE: Within the requested radius, within 30 km, centered around NL 38-00-16; WL 121-48-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4406-4414 MHz	MO	8M00D7W	12 W (ERP)	0.002 %
4536-4544 MHz	MO	8M00D7W	12 W (ERP)	0.002 %
4836-4844 MHz	MO	8M00D7W	12 W (ERP)	0.002 %

This authorization effective February 20, 2020 and
will expire 3:00 A.M. EST August 21, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Within the requested radius, within 30 km, centered around NL 38-00-16; WL 121-48-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4936-4944 MHz	MO	8M00D7W	12 W (ERP)	0.002 %

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) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Xwing should be aware that the 4400 - 4940 MHz band is not allocated for telemetry operations and as such long term development of autonomous UAS telemetry in the 4400 – 4940 MHz band may not be able to be supported in future submissions.