

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WL2XJD

(Call Sign)

0952-EX-CN-2020

(File Number)

NAME Ohio Department of Transportation

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(c) of the Commission's Rules

Station Locations

- (1) East Liberty (LOGAN), OH - NL 40-18-55; WL 83-34-29
- (2) East Liberty (LOGAN), OH - NL 40-18-55; WL 83-34-30
- (3) East Liberty (LOGAN), OH - NL 40-18-03; WL 83-33-46
- (4) East Liberty (LOGAN), OH - NL 40-18-29; WL 83-34-08
- (5) East Liberty (LOGAN), OH - NL 40-17-36; WL 83-33-22
- (6) East Liberty (LOGAN), OH - NL 40-16-54; WL 83-32-44
- (7) East Liberty (LOGAN), OH - NL 40-16-41; WL 83-32-26
- (8) Marysville (UNION), OH - NL 40-16-40; WL 83-32-26
- (9) Marysville (UNION), OH - NL 40-16-25; WL 83-31-54
- (10) Marysville (UNION), OH - NL 40-16-19; WL 83-31-33
- (11) Marysville (UNION), OH - NL 40-16-13; WL 83-30-55
- (12) Marysville (UNION), OH - NL 40-16-10; WL 83-30-13
- (13) Marysville (UNION), OH - NL 40-16-01; WL 83-29-36
- (14) Marysville (UNION), OH - NL 40-15-51; WL 83-28-58
- (15) Marysville (UNION), OH - NL 40-15-40; WL 83-28-21
- (16) Marysville (UNION), OH - NL 40-15-29; WL 83-27-42
- (17) Marysville (UNION), OH - NL 40-15-20; WL 83-27-09
- (18) Marysville (UNION), OH - NL 40-15-10; WL 83-26-35
- (19) Marysville (UNION), OH - NL 40-15-00; WL 83-25-59
- (20) Marysville (UNION), OH - NL 40-14-45; WL 83-25-23
- (21) Marysville (UNION), OH - NL 40-14-29; WL 83-24-55
- (22) Marysville (UNION), OH - NL 40-14-13; WL 83-24-23
- (23) Marysville (UNION), OH - NL 40-14-24; WL 83-23-54
- (24) Marysville (UNION), OH - NL 40-14-40; WL 83-23-52
- (25) Marysville (UNION), OH - NL 40-14-53; WL 83-23-24

This authorization effective March 07, 2025 and
will expire 3:00 A.M. EST March 01, 2026

FEDERAL
COMMUNICATIONS
COMMISSION



Station Locations

- (26) Marysville (UNION), OH - NL 40-15-07; WL 83-22-58
- (27) Marysville (UNION), OH - NL 40-15-16; WL 83-22-38
- (28) Marysville (UNION), OH - NL 40-15-15; WL 83-22-06
- (29) Marysville (UNION), OH - NL 40-15-02; WL 83-21-45
- (30) Marysville (UNION), OH - NL 40-14-49; WL 83-21-25
- (31) Marysville (UNION), OH - NL 40-14-34; WL 83-21-00
- (32) Marysville (UNION), OH - NL 40-14-10; WL 83-20-36
- (33) Marysville (UNION), OH - NL 40-13-55; WL 83-20-22
- (34) Marysville (UNION), OH - NL 40-13-37; WL 83-19-50
- (35) Marysville (UNION), OH - NL 40-13-20; WL 83-19-16
- (36) Marysville (UNION), OH - NL 40-13-00; WL 83-18-45
- (37) Marysville (UNION), OH - NL 40-12-44; WL 83-18-17
- (38) Marysville (UNION), OH - NL 40-12-33; WL 83-17-53
- (39) Marysville (UNION), OH - NL 40-12-16; WL 83-17-27
- (40) Marysville (UNION), OH - NL 40-14-04; WL 83-23-54
- (41) Marysville (UNION), OH - NL 40-11-58; WL 83-16-55
- (42) Marysville (UNION), OH - NL 40-11-42; WL 83-16-26
- (43) Marysville (UNION), OH - NL 40-11-24; WL 83-15-53
- (44) Marysville (UNION), OH - NL 40-11-06; WL 83-15-21
- (45) Marysville (UNION), OH - NL 40-10-45; WL 83-14-52
- (46) Marysville (UNION), OH - NL 40-10-17; WL 83-14-32
- (47) Marysville (UNION), OH - NL 40-09-51; WL 83-14-09
- (48) Marysville (UNION), OH - NL 40-09-35; WL 83-13-50
- (49) Marysville (UNION), OH - NL 40-09-23; WL 83-13-34
- (50) Plain City (UNION), OH - NL 40-09-02; WL 83-13-07
- (51) Plain City (UNION), OH - NL 40-08-40; WL 83-12-39
- (52) Plain City (UNION), OH - NL 40-08-18; WL 83-12-11
- (53) Plain City (UNION), OH - NL 40-07-55; WL 83-11-42
- (54) Plain City (UNION), OH - NL 40-07-32; WL 83-11-15
- (55) Plain City (UNION), OH - NL 40-07-03; WL 83-11-02
- (56) Dublin (FRANKLIN), OH - NL 40-06-09; WL 83-10-32
- (57) Dublin (FRANKLIN), OH - NL 40-05-57; WL 83-10-06
- (58) Dublin (FRANKLIN), OH - NL 40-05-58; WL 83-09-28
- (59) Dublin (FRANKLIN), OH - NL 40-05-58; WL 83-08-50
- (60) Dublin (FRANKLIN), OH - NL 40-05-56; WL 83-07-36
- (61) East Liberty (LOGAN), OH - NL 40-19-11; WL 83-35-23
- (62) Dublin (FRANKLIN), OH - NL 40-05-56; WL 83-08-13
- (63) Dublin (UNION), OH - NL 40-06-34; WL 83-10-43

Frequency Information

East Liberty (LOGAN), OH - NL 40-18-55; WL 83-34-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

East Liberty (LOGAN), OH - NL 40-18-55; WL 83-34-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

East Liberty (LOGAN), OH - NL 40-18-03; WL 83-33-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

East Liberty (LOGAN), OH - NL 40-18-29; WL 83-34-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

East Liberty (LOGAN), OH - NL 40-17-36; WL 83-33-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

East Liberty (LOGAN), OH - NL 40-16-54; WL 83-32-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

East Liberty (LOGAN), OH - NL 40-16-41; WL 83-32-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-16-40; WL 83-32-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-16-25; WL 83-31-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-16-19; WL 83-31-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-16-13; WL 83-30-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-16-10; WL 83-30-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-16-01; WL 83-29-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-51; WL 83-28-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-40; WL 83-28-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-29; WL 83-27-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Frequency Information

Marysville (UNION), OH - NL 40-15-20; WL 83-27-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-10; WL 83-26-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-00; WL 83-25-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-45; WL 83-25-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-14-29; WL 83-24-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-13; WL 83-24-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-24; WL 83-23-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-14-40; WL 83-23-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-14-53; WL 83-23-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-07; WL 83-22-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-16; WL 83-22-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-15-15; WL 83-22-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-15-02; WL 83-21-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-14-49; WL 83-21-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-34; WL 83-21-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-10; WL 83-20-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-13-55; WL 83-20-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-13-37; WL 83-19-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-13-20; WL 83-19-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-13-00; WL 83-18-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-12-44; WL 83-18-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-12-33; WL 83-17-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-12-16; WL 83-17-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-14-04; WL 83-23-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-11-58; WL 83-16-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-11-42; WL 83-16-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-11-24; WL 83-15-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-11-06; WL 83-15-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-10-45; WL 83-14-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-10-17; WL 83-14-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Marysville (UNION), OH - NL 40-09-51; WL 83-14-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Marysville (UNION), OH - NL 40-09-35; WL 83-13-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Marysville (UNION), OH - NL 40-09-23; WL 83-13-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Plain City (UNION), OH - NL 40-09-02; WL 83-13-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Plain City (UNION), OH - NL 40-08-40; WL 83-12-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Plain City (UNION), OH - NL 40-08-18; WL 83-12-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

Plain City (UNION), OH - NL 40-07-55; WL 83-11-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Plain City (UNION), OH - NL 40-07-32; WL 83-11-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Plain City (UNION), OH - NL 40-07-03; WL 83-11-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Dublin (FRANKLIN), OH - NL 40-06-09; WL 83-10-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Frequency Information

Dublin (FRANKLIN), OH - NL 40-05-57; WL 83-10-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Dublin (FRANKLIN), OH - NL 40-05-58; WL 83-09-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Dublin (FRANKLIN), OH - NL 40-05-58; WL 83-08-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Dublin (FRANKLIN), OH - NL 40-05-56; WL 83-07-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Frequency Information

East Liberty (LOGAN), OH - NL 40-19-11; WL 83-35-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	4.2 %

Dublin (FRANKLIN), OH - NL 40-05-56; WL 83-08-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Dublin (UNION), OH - NL 40-06-34; WL 83-10-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5895-5905 MHz	FX	10M0W7D	0.199 W (ERP)	10 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The frequency band of 5855-5895 MHz shall be notched out.
The Commission adopted new rules in November 2020 for operations in the 5.9 GHz band.
Please see the link below for the 5.9 GHz band.
<https://www.fcc.gov/document/fcc-modernizes-59-ghz-band-improve-wi-fi-and-automotive>
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government, Contract Number FHWA 51-16. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.