

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

EXPERIMENTAL

(Nature of Service)

WF2XLF

(Call Sign)

XT MO

(Class of Station)

0159-EX-ML-2012

(File Number)

NAME Panasonic Avionics Corporation

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(d g) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53
- (2) MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 34-35-51; WL 117-22-59
- (3) MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14
- (4) MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 31-38-16; WL 97-04-45

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-420 MHz	MO	1M00N0N	13.7 W (ERP)	
450-470 MHz	MO	20M0DXN	0.12303 mW (ERP)	

This authorization effective January 10, 2013 and
will expire 3:00 A.M. EST November 01, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-460 MHz	MO	1M00N0N	13.7 W (ERP)	
450.4-457.6 MHz	MO	1M00P0N	29.5 W (ERP)	
479-484 MHz	MO	1M00N0N	13.7 W (ERP)	
776-794 MHz	MO	1M00N0N	13.7 W (ERP)	
806-849 MHz	MO	1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00P0N 1M00P0N 1M00P0N	29.5 W (ERP)	
869-894 MHz	MO	25M0DXN	0.35481 mW (ERP)	
870-925 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
876-915 MHz	MO	1M00P0N	29.5 W (ERP)	
921-960 MHz	MO	39M0DXN	0.35481 mW (ERP)	
1613.8-1626.5 MHz	MO	1M00P0N	13.7 W (ERP)	
1710-1785 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
1805-1880 MHz	MO	75M0DXN	0.39811 mW (ERP)	
1850-1910 MHz	MO	1M00N0N 1M00N0N 1M00N0N	13.7 W (ERP)	
1850-1910 MHz	MO	1M00P0N 1M00P0N 1M00P0N	13.7 W (ERP)	
1900-1920 MHz	MO	1M00P0N	1.8 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
2010-2025 MHz	MO	1M00P0N	1.8 W (ERP)	
2110-2170 MHz	MO	60MODXN	0.72444 mW (ERP)	
2110-2170 MHz	MO	1M00N0N	1.8 W (ERP)	
2400-2497 MHz	MO	1M00P0N 1M00P0N 1M00P0N	2.9 W (ERP)	
2500-2685 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
3400-3600 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
5150-5250 MHz	MO	1M00P0N	2.9 W (ERP)	
5250-5350 MHz	MO	1M00P0N	2.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5470-5725 MHz	MO	1M00P0N	2.9 W (ERP)	
5725-5825 MHz	MO	1M00P0N	2.9 W (ERP)	

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-420 MHz	MO	1M00N0N	13.7 W (ERP)	
450-470 MHz	MO	20M0DXN	0.12303 mW (ERP)	
450-460 MHz	MO	1M00N0N	13.7 W (ERP)	
450.4-457.6 MHz	MO	1M00P0N	29.5 W (ERP)	
479-484 MHz	MO	1M00N0N	13.7 W (ERP)	
776-794 MHz	MO	1M00N0N	13.7 W (ERP)	
806-849 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00P0N 1M00P0N 1M00P0N	29.5 W (ERP)	
869-894 MHz	MO	25M0DXN	0.35481 mW (ERP)	
870-925 MHz	MO	1M00N0N	13.7 W (ERP)	
876-915 MHz	MO	1M00P0N	29.5 W (ERP)	
921-960 MHz	MO	39M0DXN	0.35481 mW (ERP)	
1613.8-1626.5 MHz	MO	1M00P0N	13.7 W (ERP)	
1710-1785 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
1805-1880 MHz	MO	75M0DXN	0.39811 mW (ERP)	
1850-1910 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
1850-1910 MHz	MO	1M00P0N 1M00P0N 1M00P0N	13.7 W (ERP)	
1900-1920 MHz	MO	1M00P0N	1.8 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
2010-2025 MHz	MO	1M00P0N	1.8 W (ERP)	
2110-2170 MHz	MO	60M0DXN	0.72444 mW (ERP)	
2110-2170 MHz	MO	1M00N0N	1.8 W (ERP)	
2400-2497 MHz	MO	1M00P0N 1M00P0N 1M00P0N	2.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500-2685 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
3400-3600 MHz	MO	1M00N0N 1M00P0N	13.7 W (ERP)	
5150-5250 MHz	MO	1M00P0N	2.9 W (ERP)	
5250-5350 MHz	MO	1M00P0N	2.9 W (ERP)	
5470-5725 MHz	MO	1M00P0N	2.9 W (ERP)	
5725-5825 MHz	MO	1M00P0N	2.9 W (ERP)	

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-420 MHz	MO	1M00N0N	13.7 W (ERP)	
450-470 MHz	MO	20M0DXN	0.12303 mW (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
450-460 MHz	MO	1M00N0N	13.7 W (ERP)	
450.4-457.6 MHz	MO	1M00P0N	29.5 W (ERP)	
479-484 MHz	MO	1M00N0N	13.7 W (ERP)	
776-794 MHz	MO	1M00N0N	13.7 W (ERP)	
806-849 MHz	MO	1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00P0N 1M00P0N 1M00P0N	29.5 W (ERP)	
869-894 MHz	MO	25M0DXN	0.35481 mW (ERP)	
870-925 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
876-915 MHz	MO	1M00P0N	29.5 W (ERP)	
921-960 MHz	MO	39M0DXN	0.35481 mW (ERP)	
1613.8-1626.5 MHz	MO	1M00P0N	13.7 W (ERP)	
1710-1785 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
1805-1880 MHz	MO	75M0DXN	0.39811 mW (ERP)	
1850-1910 MHz	MO	1M00N0N 1M00N0N 1M00N0N	13.7 W (ERP)	
1850-1910 MHz	MO	1M00P0N 1M00P0N 1M00P0N	13.7 W (ERP)	
1900-1920 MHz	MO	1M00P0N	1.8 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
2010-2025 MHz	MO	1M00P0N	1.8 W (ERP)	
2110-2170 MHz	MO	60MODXN	0.72444 mW (ERP)	
2110-2170 MHz	MO	1M00N0N	1.8 W (ERP)	
2400-2497 MHz	MO	1M00P0N 1M00P0N 1M00P0N	2.9 W (ERP)	
2500-2685 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
3400-3600 MHz	MO	1M00N0N 1M00P0N	13.7 W (ERP)	
5150-5250 MHz	MO	1M00P0N	2.9 W (ERP)	
5250-5350 MHz	MO	1M00P0N	2.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5470-5725 MHz	MO	1M00P0N	2.9 W (ERP)	
5725-5825 MHz	MO	1M00P0N	2.9 W (ERP)	

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
410-420 MHz	MO	1M00N0N	13.7 W (ERP)	
450-470 MHz	MO	20M0DXN	0.12303 mW (ERP)	
450-460 MHz	MO	1M00N0N	13.7 W (ERP)	
450.4-457.6 MHz	MO	1M00P0N	29.5 W (ERP)	
479-484 MHz	MO	1M00N0N	13.7 W (ERP)	
776-794 MHz	MO	1M00N0N	13.7 W (ERP)	
806-849 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
824-849 MHz	MO	1M00P0N 1M00P0N 1M00P0N	29.5 W (ERP)	
869-894 MHz	MO	25M0DXN	0.35481 mW (ERP)	
870-925 MHz	MO	1M00N0N	13.7 W (ERP)	
876-915 MHz	MO	1M00P0N	29.5 W (ERP)	
921-960 MHz	MO	39M0DXN	0.35481 mW (ERP)	
1613.8-1626.5 MHz	MO	1M00P0N	13.7 W (ERP)	
1710-1785 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
1805-1880 MHz	MO	75M0DXN	0.39811 mW (ERP)	
1850-1910 MHz	MO	1M00N0N	13.7 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	1M00N0N 1M00N0N	13.7 W (ERP)	
1850-1910 MHz	MO	1M00P0N 1M00P0N 1M00P0N	13.7 W (ERP)	
1900-1920 MHz	MO	1M00P0N	1.8 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
1920-1980 MHz	MO	1M00N0N	13.7 W (ERP)	
2010-2025 MHz	MO	1M00P0N	1.8 W (ERP)	
2110-2170 MHz	MO	60M0DXN	0.72444 mW (ERP)	
2110-2170 MHz	MO	1M00N0N	1.8 W (ERP)	
2400-2497 MHz	MO	1M00P0N 1M00P0N 1M00P0N	2.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 0.5 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500-2685 MHz	MO	1M00P0N 1M00N0N	13.7 W (ERP)	
3400-3600 MHz	MO	1M00N0N 1M00P0N	13.7 W (ERP)	
5150-5250 MHz	MO	1M00P0N	2.9 W (ERP)	
5250-5350 MHz	MO	1M00P0N	2.9 W (ERP)	
5470-5725 MHz	MO	1M00P0N	2.9 W (ERP)	
5725-5825 MHz	MO	1M00P0N	2.9 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (3) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (4) Licensee is aware that cell phones operating in the 1755-1785 MHz band are not authorized by the FCC in the US and testing is solely for determining interference to avionics equipment.
- (5) Operations in the 421-450 MHz are used by federal radiolocations and are subject to interference from Radars.

Special Conditions:

- (6) Coordination must be obtained from the Western Area Frequency Coordinator at (760) 939-6948 for Victorville, CA location.
- (7) Licensee should coordinate with Fixed Microwave licensees in the test site areas to prevent interference with fixed point to point paths and with possible Temporary Fixed/Mobile point-to-point paths