

**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)

0318-EX-RR-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 1 km, centered around NL 47-54-22; WL 122-16-53
- (2) MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59
- (3) MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14
- (4) MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
421-494 MHz	MO	N0N	0.5 W (ERP)	
450.2-457.6 MHz	MO	N0NXXX	31.6 W (ERP)	

This authorization effective November 01, 2012 and
will expire 3:00 A.M. EST November 01, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
478.8-486 MHz	MO	N0NXXX	31.6 W (ERP)	
479-484 MHz	MO	N0N	15.8 W (ERP)	
776-794 MHz	MO	N0N	15.8 W (ERP)	
806-849 MHz	MO	N0N	15.8 W (ERP)	
806-894 MHz	MO	N0NXXX	0.5 W (ERP)	
806-825 MHz	MO	N0NXXX	31.6 W (ERP)	
824-849 MHz	MO	N0N	15.8 W (ERP)	
824-829 MHz	MO	N0N	4 W (ERP)	
824-849 MHz	MO	N0NXXX	31.6 W (ERP)	
824-849 MHz	MO	N0NXXX	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	N0NXXX	4 W (ERP)	
870-925 MHz	MO	N0N	15.8 W (ERP)	
876-915 MHz	MO	N0NXXX	31.6 W (ERP)	
887-889 MHz	MO	N0NXXX	15.8 W (ERP)	
893-901 MHz	MO	N0NXXX	15.8 W (ERP)	
896-901 MHz	MO	N0NXXX	31.6 W (ERP)	
915-958 MHz	MO	N0NXXX	15.8 W (ERP)	
921-960 MHz	MO	N0NXXX	0.5 W (ERP)	
1427.9-1452.9 MHz	MO	N0N	4 W (ERP)	
1453-1465 MHz	MO	N0NXXX	31.6 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1477-1501 MHz	MO	N0NXXX	15.8 W (ERP)	
1710-1785 MHz	MO	N0N N0NXXX	15.8 W (ERP)	
1805-1880 MHz	MO	N0N	1 W (ERP)	
1805-1880 MHz	MO	200KL9W	0.3 W (ERP)	
1850-1910 MHz	MO	N0N	15.8 W (ERP)	
1850-1910 MHz	MO	N0N	4 W (ERP)	
1850-1910 MHz	MO	N0NXXX	15.8 W (ERP)	
1850-1910 MHz	MO	N0NXXX	4 W (ERP)	
1895-1918 MHz	MO	N0NXXX N0NXXX	0.3 W (ERP)	
1900-1920 MHz	MO	N0NXXX	4 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1980 MHz	MO	N0N	15.8 W (ERP)	
1920-1980 MHz	MO	N0N	4 W (ERP)	
1930-1990 MHz	MO	N0N	1 W (ERP)	
2010-2025 MHz	MO	N0N	7.9 W (ERP)	
2010-2025 MHz	MO	N0NXXX	4 W (ERP)	
2110-2170 MHz	MO	N0N	0.5 W (ERP)	
2110-2170 MHz	MO	N0NXXX	7.9 W (ERP)	
2300-2400 MHz	MO	N0N	5 W (ERP)	
2400-2484 MHz	MO	N0NXXX	7.9 W (ERP)	
2500-2690 MHz	MO	N0N	4 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5150-5250 MHz	MO	N0NXXX	7.9 W (ERP)	
5250-5350 MHz	MO	N0NXXX	7.9 W (ERP)	
5727-5825 MHz	MO	N0NXXX	7.9 W (ERP)	

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
421-494 MHz	MO	N0N	0.5 W (ERP)	
450.2-457.6 MHz	MO	N0NXXX	31.6 W (ERP)	
478.8-486 MHz	MO	N0NXXX	31.6 W (ERP)	
479-484 MHz	MO	N0N	15.8 W (ERP)	
776-794 MHz	MO	N0N	15.8 W (ERP)	
806-849 MHz	MO	N0N	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-825 MHz	MO	N0NXXX	31.6 W (ERP)	
806-894 MHz	MO	N0NXXX	0.5 W (ERP)	
824-849 MHz	MO	N0N	15.8 W (ERP)	
824-829 MHz	MO	N0N	4 W (ERP)	
824-849 MHz	MO	N0NXXX	31.6 W (ERP)	
824-849 MHz	MO	N0NXXX	15.8 W (ERP)	
824-849 MHz	MO	N0NXXX	4 W (ERP)	
870-925 MHz	MO	N0N	15.8 W (ERP)	
876-915 MHz	MO	N0NXXX	31.6 W (ERP)	
887-889 MHz	MO	N0NXXX	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
893-901 MHz	MO	N0NXXX	15.8 W (ERP)	
896-901 MHz	MO	N0NXXX	31.6 W (ERP)	
915-958 MHz	MO	N0NXXX	15.8 W (ERP)	
921-960 MHz	MO	N0NXXX	0.5 W (ERP)	
1427.9-1452.9 MHz	MO	N0N	4 W (ERP)	
1453-1465 MHz	MO	N0NXXX	31.6 W (ERP)	
1477-1501 MHz	MO	N0NXXX	15.8 W (ERP)	
1710-1785 MHz	MO	N0N N0NXXX	15.8 W (ERP)	
1805-1880 MHz	MO	N0NXXX	1 W (ERP)	
1805-1880 MHz	MO	200KL9W	0.3 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	N0N	15.8 W (ERP)	
1850-1910 MHz	MO	N0N	4 W (ERP)	
1850-1910 MHz	MO	N0NXXX	15.8 W (ERP)	
1850-1910 MHz	MO	N0NXXX	4 W (ERP)	
1895-1918 MHz	MO	N0NXXX N0NXXX	0.3 W (ERP)	
1900-1920 MHz	MO	N0NXXX	4 W (ERP)	
1920-1980 MHz	MO	N0N	15.8 W (ERP)	
1920-1980 MHz	MO	N0N	4 W (ERP)	
1930-1990 MHz	MO	N0N	1 W (ERP)	
2010-2025 MHz	MO	N0N	7.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2010-2025 MHz	MO	N0NXXX	4 W (ERP)	
2110-2170 MHz	MO	N0N	0.5 W (ERP)	
2110-2170 MHz	MO	N0NXXX	7.9 W (ERP)	
2300-2400 MHz	MO	N0N	5 W (ERP)	
2400-2484 MHz	MO	N0NXXX	7.9 W (ERP)	
2500-2690 MHz	MO	N0N	4 W (ERP)	
5150-5250 MHz	MO	N0NXXX	7.9 W (ERP)	
5250-5350 MHz	MO	N0NXXX	7.9 W (ERP)	
5727-5825 MHz	MO	N0NXXX	7.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
421-494 MHz	MO	N0N	0.5 W (ERP)	
450.2-457.6 MHz	MO	N0NXXX	31.6 W (ERP)	
478.8-486 MHz	MO	N0NXXX	31.6 W (ERP)	
479-484 MHz	MO	N0N	15.8 W (ERP)	
776-794 MHz	MO	N0N	15.8 W (ERP)	
806-849 MHz	MO	N0N	15.8 W (ERP)	
806-825 MHz	MO	N0NXXX	31.6 W (ERP)	
806-894 MHz	MO	N0NXXX	0.5 W (ERP)	
824-849 MHz	MO	N0N	15.8 W (ERP)	
824-829 MHz	MO	N0N	4 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	N0NXXX	31.6 W (ERP)	
824-849 MHz	MO	N0NXXX	15.8 W (ERP)	
824-849 MHz	MO	N0NXXX	4 W (ERP)	
870-925 MHz	MO	N0N	15.8 W (ERP)	
876-915 MHz	MO	N0NXXX	31.6 W (ERP)	
887-889 MHz	MO	N0NXXX	15.8 W (ERP)	
893-901 MHz	MO	N0NXXX	15.8 W (ERP)	
896-901 MHz	MO	N0NXXX	31.6 W (ERP)	
915-958 MHz	MO	N0NXXX	15.8 W (ERP)	
921-960 MHz	MO	N0NXXX	0.5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427.9-1452.9 MHz	MO	N0N	4 W (ERP)	
1453-1465 MHz	MO	N0NXXX	31.6 W (ERP)	
1477-1501 MHz	MO	N0NXXX	15.8 W (ERP)	
1710-1785 MHz	MO	N0N N0NXXX	15.8 W (ERP)	
1805-1880 MHz	MO	N0NXXX	1 W (ERP)	
1805-1880 MHz	MO	200KL9W	0.3 W (ERP)	
1850-1910 MHz	MO	N0N	15.8 W (ERP)	
1850-1910 MHz	MO	N0N	4 W (ERP)	
1850-1910 MHz	MO	N0NXXX	15.8 W (ERP)	
1850-1910 MHz	MO	N0NXXX	4 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1895-1918 MHz	MO	N0NXXX N0NXXX	0.3 W (ERP)	
1900-1920 MHz	MO	N0NXXX	4 W (ERP)	
1920-1980 MHz	MO	N0N	15.8 W (ERP)	
1920-1980 MHz	MO	N0N	4 W (ERP)	
1930-1990 MHz	MO	N0N	1 W (ERP)	
2010-2025 MHz	MO	N0N	7.9 W (ERP)	
2010-2025 MHz	MO	N0NXXX	4 W (ERP)	
2110-2170 MHz	MO	N0N	0.5 W (ERP)	
2110-2170 MHz	MO	N0NXXX	7.9 W (ERP)	
2300-2400 MHz	MO	N0N	5 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 36-05-52; WL 79-56-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2484 MHz	MO	N0NXXX	7.9 W (ERP)	
2500-2690 MHz	MO	N0N	4 W (ERP)	
5150-5250 MHz	MO	N0NXXX	7.9 W (ERP)	
5250-5350 MHz	MO	N0NXXX	7.9 W (ERP)	
5727-5825 MHz	MO	N0NXXX	7.9 W (ERP)	

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
421-494 MHz	MO	N0N	0.5 W (ERP)	
450.2-457.6 MHz	MO	N0NXXX	31.6 W (ERP)	
478.8-486 MHz	MO	N0NXXX	31.6 W (ERP)	
479-484 MHz	MO	N0N	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
776-794 MHz	MO	N0N	15.8 W (ERP)	
806-849 MHz	MO	N0N	15.8 W (ERP)	
806-825 MHz	MO	N0NXXX	31.6 W (ERP)	
806-894 MHz	MO	N0NXXX	0.5 W (ERP)	
824-849 MHz	MO	N0N	15.8 W (ERP)	
824-829 MHz	MO	N0N	4 W (ERP)	
824-849 MHz	MO	N0NXXX	31.6 W (ERP)	
824-849 MHz	MO	N0NXXX	15.8 W (ERP)	
824-849 MHz	MO	N0NXXX	4 W (ERP)	
870-925 MHz	MO	N0N	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
876-915 MHz	MO	N0NXXX	31.6 W (ERP)	
887-889 MHz	MO	N0NXXX	15.8 W (ERP)	
893-901 MHz	MO	N0NXXX	15.8 W (ERP)	
896-901 MHz	MO	N0NXXX	31.6 W (ERP)	
915-958 MHz	MO	N0NXXX	15.8 W (ERP)	
921-960 MHz	MO	N0NXXX	0.5 W (ERP)	
1427.9-1452.9 MHz	MO	N0N	4 W (ERP)	
1453-1465 MHz	MO	N0NXXX	31.6 W (ERP)	
1477-1501 MHz	MO	N0NXXX	15.8 W (ERP)	
1710-1785 MHz	MO	N0N N0NXXX	15.8 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1805-1880 MHz	MO	N0NXXX	1 W (ERP)	
1805-1880 MHz	MO	200KL9W	0.3 W (ERP)	
1850-1910 MHz	MO	N0N	15.8 W (ERP)	
1850-1910 MHz	MO	N0N	4 W (ERP)	
1850-1910 MHz	MO	N0NXXX	15.8 W (ERP)	
1850-1910 MHz	MO	N0NXXX	4 W (ERP)	
1895-1918 MHz	MO	N0NXXX N0NXXX	0.3 W (ERP)	
1900-1920 MHz	MO	N0NXXX	4 W (ERP)	
1920-1980 MHz	MO	N0N	15.8 W (ERP)	
1920-1980 MHz	MO	N0N	4 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	N0N	1 W (ERP)	
2010-2025 MHz	MO	N0N	7.9 W (ERP)	
2010-2025 MHz	MO	N0NXXX	4 W (ERP)	
2110-2170 MHz	MO	N0N	0.5 W (ERP)	
2110-2170 MHz	MO	N0NXXX	7.9 W (ERP)	
2300-2400 MHz	MO	N0N	5 W (ERP)	
2400-2484 MHz	MO	N0NXXX	7.9 W (ERP)	
2500-2690 MHz	MO	N0N	4 W (ERP)	
5150-5250 MHz	MO	N0NXXX	7.9 W (ERP)	
5250-5350 MHz	MO	N0NXXX	7.9 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, within 1 km, centered around NL 31-38-16; WL 97-04-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5727-5825 MHz	MO	N0NXXX	7.9 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.
- (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