

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WL2XNA

(Call Sign)

0072-EX-CN-2021

(File Number)

NAME L3Harris Technologies

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) Greenville (HUNT), TX - NL 33-03-36; WL 96-03-11

Frequency Information

Greenville (HUNT), TX - NL 33-03-36; WL 96-03-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
0.208 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
0.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
0.422 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
1.7-1.9 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %

This authorization effective June 23, 2021 and
will expire 3:00 A.M. EST January 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Greenville (HUNT), TX - NL 33-03-36; WL 96-03-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.2-2.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
2.55-2.7 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
3-3.1 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
3.6-3.8 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
4.1 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
4.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
4.5-4.65 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
4.9-4.995 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
5.2-5.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
5.68-5.8 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.2-6.4 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
7.1-7.2 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
7.7-7.8 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
8-8.1 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
8.3-8.6 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
8.8-8.815 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
8.965-9 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
9.2-9.4 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
10.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
10.5 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %

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10.7-11.1 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
11.4-11.6 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
12.1-12.9 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
13.1 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
13.3 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
13.5 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
13.9-14.99 MHz	FX	10H0P0N	30.5 W (ERP)	0.1 %
15.2-15.7 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
15.9-16.4 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
16.6-16.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17.1-17.48 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
17.97-18.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
18.7-18.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
19.02-19.4 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
19.6-19.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
20.3-20.7 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
20.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
21.1-21.45 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
22-22.2 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
22.4 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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22.7-22.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
23.1 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
23.3-23.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
23.7-24.2 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
26.3-26.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
27.1-27.3 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
27.6-27.7 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
27.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
28.1-29.4 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
29.6-29.9 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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30.2-30.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
31.2-32.6 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
33-33.2 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
33.6 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
34-37.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
38.2-39 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
39.6-39.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
40.2-40.6 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
41 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
41.4-41.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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42.4-47.6 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
48-48.4 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
48.8-49.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
50.2-51.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
52.2-53.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
54.2-55.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
56.2-59.8 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
60.5-62.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
63.5-65 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
66.5-67.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
68.5-69.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
70.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
71.5-72.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
75.5-79.7 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
80.5-81.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
82.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
83.5-84.5 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
85.5-88 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
130 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
140-190 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200-205 MHz	FX	10H0P0N	214 W (ERP)	0.1 %
215-220 MHz	FX	10H0P0N	214 W (ERP)	0.1 %

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) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (5) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (6) Prior to commencing any operations in the 148-150.05 MHz, 161-163 MHz frequency bands, experimental licensee must notify licensee of ORBCOMM License Corp. (Call signs: E940534, S2103. Mr. Walter H. Sonnenfeldt, Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (7) Prior to commencing any operations in the 148.25 - 149.95 MHz frequency band, experimental licensee must notify licensee of Swarm Technologies, Inc. (Call signs: E190490, S3041. Dr. Sophie Arlow, Phone Number: 425-753-3349, E-Mail: sophie@swarm.space). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Special Conditions:

- (8) Prior to commencing any operations in the 156.7625-156.7875 MHz, 156.8125-156.8375 MHz, 161.9625-161.9875 MHz, 162.0125-162.0375 MHz, 161.9375-161.9625 MHz, and 161.9875-162.0125 MHz frequency bands, the experimental licensee must notify licensee of Spire Global, Inc. (Call sign: S2946 Name: Mrs. Francisca Adeuyi, Phone Number: 4153563400 x307, E-Mail: francisca.adeuyi@spire.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (9) Prior to commencing any operations in the 156.7625-156.7875 MHz, 156.8125-156.8375 MHz, 161.9625-161.9875 MHz, 162.0125-162.0375 MHz frequency bands, the applicant must notify HawkEye 360, Inc. (Call sign: S3042. Name: Mr. Rob Rainhart, Phone Number: 571-203-0360 E-Mail: rob@he360.com or Mr. Michael Mineiro Phone Number: 571-203-0360 E-Mail: michael.mineiro@he360.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (10) Licensee must obtain consent from the following within 50 miles of the contours of the testing area:
- Paging Service licensees in 35 MHz
 - Paging Service licensees in 43 MHz
 - Paging Service licensees in 152 MHz
 - Paging Service licensees in 158 MHz
 - Paging Service licensees in 152 MHz/158 MHz
 - AMTS Licensee (217-218 MHz/219-220 MHz)
 - 218-219 MHz Service licensees
- (11) Operation is not permitted using the frequency bands following:
- 4.9-5 MHz
 - 8.815-8.965 MHz
 - 11.3 MHz
 - 13.9-15 MHz
 - 17.9 MHz
 - 20-20.1 MHz
 - 24.4-25.7 MHz
- (12) Stop Buzzer is Kara Curtis at (903) 455 8211, (903) 455 8158, and (903) 457 3544.