

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

EXPERIMENTAL

(Nature of Service)

WS9XYR

(Call Sign)

XT FX MO

(Class of Station)

1438-EX-ST-2021

(File Number)

NAME AMG Technology Investment Group, LLC d.b.a Nextlink

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:

Nextlink will conduct vendor testing for point to multipoint configuration in Hudson Oaks and Weatherford, Texas. We'll be operating the equipment for capacity testing across multiple

Station Locations

- (1) Hudson Oaks (PARKER), TX - NL 32-45-03; WL 97-41-17
- (2) Weatherford (PARKER), TX - NL 32-47-02; WL 97-43-13
- (3) MOBILE: , within 10 km, centered around NL 32-45-03; WL 97-41-17
- (4) MOBILE: , within 10 km, centered around NL 31-47-02; WL 97-43-13

Frequency Information

Hudson Oaks (PARKER), TX - NL 32-45-03; WL 97-41-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6400 MHz	FX	16M0D7D	2.43 W (ERP)	0.0016 %

This authorization effective March 01, 2022 and
will expire 3:00 A.M. EST September 02, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Weatherford (PARKER), TX - NL 32-47-02; WL 97-43-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6425 MHz	FX	16M0D7D	2.43 W (ERP)	0.0016 %

MOBILE: , within 10 km, centered around NL 32-45-03; WL 97-41-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6525-6875 MHz	MO	16M0D7D	2.43 W (ERP)	0.0016 %

MOBILE: , within 10 km, centered around NL 31-47-02; WL 97-43-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6525-6875 MHz	MO	16M0D7D	2.43 W (ERP)	0.0016 %

Special Conditions:

- (1) Marketing of devices (as defined in 47CFR2.803 of this chapter) or provision of services for hire is not permitted.
- (2) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (3) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (4) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (5) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (6) This is for experimental purpose only and doesn't permit commercial service.

Special Conditions:

- (7) Experimental licensee must coordinate with Fixed Microwave Service licensees in the proposed areas in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (8) Operation must not exceed the conducted power/input power/ output power and maximum EIRP limits of the Unlicensed Use of the 6 GHz Band, 35 FCC Rcd 3852, 3853 (2020), including footnote 34.
- (9) The testing is limited to outdoor.

Special Conditions:**(10) For outdoor operations:**

a. Licensee is authorized to conduct tests on maximum of 2 units of Cambium Networks ePMP 6000 sector antenna mounted on fixed towers and maximum of 20 customer premises units of Cambium Networks ePMP Force 600C dish (CPE).

b. Licensee is authorized to conduct tests on 2 units of Cambium Networks ePMP 6000 sector antenna with antenna gain of 18 dBi (AP); which work as a Standard Power Access Point under AFC control operating in the UNII-5 (5925-6425 MHz) frequency band. The Maximum output power of ePMP 6000 sector antenna must not exceed 0.06W/18 dBm /-12 dBW. The Maximum EIRP of ePMP 6000 sector antenna must not exceed 36 dBm = 4 watt = 6 dBW = 2.43W ERP. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	authorized power	Maximum EIRP
18dBi	0.06W/18dBm/-12dBW	2.43 W ERP	2.43W ERP/4 watts/36 dBm/6dBW

c. Licensee is authorized to conduct tests on 20 units of Cambium Networks ePMP Force 600C dish antenna with antenna gain of 25 dBi (CPE) mounted on fixed structure; which work as Fixed Client under AFC control in the UNII-7 (6525-6875 MHz) frequency band. The Maximum output power of ePMP Force 600C dish antenna must not exceed 0.0126W/11 dbm /-19 dBW. The Maximum EIRP of ePMP Force 600C dish antenna must not exceed 36 dBm = 4 watt = 6 dBW = 2.43W ERP. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	authorized power	Maximum EIRP
25dBi	0.0126W/11dbm/-19dBW	2.43 W ERP	2.43W ERP/4 watts/36 dBm/6dBW

d. Licensee is authorized to conduct tests on 20 units of Cambium Networks ePMP Force 600C dish antenna with antenna gain of 25 dBi (CPE); which work as a Client devices (Client Connected to outdoor standard power access point) in the UNII-7 (6525-6875 MHz) frequency band. The Maximum output power of ePMP Force 600C dish antenna must not exceed 0.003W/5dBm/-25dBW. the maximum EIRP over the frequency band of operation must not exceed 30 dBm (30 dBm EIRP = 0.61W ERP =1 watt = 0dBW). In addition, the maximum power spectral density must not exceed 17 dBm (0.05 W) EIRP in any 1-megahertz band:

Antenna Gain	output power	authorized power	Maximum EIRP
25dBi	0.003W/5dBm/-25dBW	0.61 W ERP	0.61 W ERP/1watt/30 dBm/0dBW

e. For conducting outdoor tests in the 5.925-6.425 GHz (U-NII-5) and 6525-6875 MHz (UNII-7) frequency bands, the maximum EIRP from a Standard-Power Access Point (AFC Controlled) and fixed client device must not exceed 125 mW (21 dBm) at any elevation angle of more than 30 degrees above the horizon to protect satellite receivers.

(11) ⁱFor out of band emission limit:

a. For transmitters operating within the 5.925-6.425 GHz (U-NII-5) frequency band:

Any emissions outside of the 5.925-6.425 GHz band must not exceed an EIRP of -27 dBm /MHz (The -27 dBm is equivalent to 0.000002 W).

b. For transmitters operating within the 6525-6875 MHz (U-NII-7) frequency band:

Any emissions outside of the 6525-6875 GHz band must not exceed an EIRP of -27 dBm /MHz (The -27 dBm is equivalent to 0.000002 W).