

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

EXPERIMENTAL

(Nature of Service)

WN9XHX

(Call Sign)

XT FX

(Class of Station)

0372-EX-ST-2019

(File Number)

NAME ADTRAN Inc.

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:

The purpose of the experimental license is to test the self-organizing mesh network equipment in real world environment and to specifically test reliability of the network.

Station Locations

- (1) Huntsville (MADISON), AL - NL 34-43-32; WL 86-40-50
- (2) Huntsville (MADISON), AL - NL 34-43-30; WL 86-41-26
- (3) Huntsville (MADISON), AL - NL 34-44-11; WL 86-41-02
- (4) Huntsville (MADISON), AL - NL 34-43-50; WL 86-41-07

Frequency Information

Huntsville (MADISON), AL - NL 34-43-32; WL 86-40-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-29.5 GHz	FX	100MD7D	10 W (ERP)	0.001 %

This authorization effective March 12, 2019 and
will expire 3:00 A.M. EST September 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (3) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-29.5 GHz band.
- (4) Licensee shall ensure that the transmitting fixed station antenna main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.