



# Lynk the World

---

NARRATIVE STATEMENT

Lynk Global, INC.  
510 N. WASHINGTON ST, SUITE 200, FALLS CHURCH, VA 22046



EXPERIMENTAL LICENSE APPLICATION  
NARRATIVE STATEMENT

**(1) Applicant Information.**

Lynk Global, Inc.  
510 N. Washington Street, Suite 200  
Falls Church, VA 22046

Margo Deckard, COO  
+1-937-367-8737  
[mdeckard@lynk.world](mailto:mdeckard@lynk.world)

**(2) Description of why experimental authorization is needed.**

Lynk Global, Inc. (“Lynk”) seeks experimental authority to continue when necessary identical *Lynk the World* S-band operations as currently authorized under STA File Number 1783-EX-ST-2020. Considering the deployed satellite S-band radio on *Lynk the World* has the potential to revert to the factory settings with frequency pairing Rx 2029.5 MHz and Tx 2229.5 MHz, Lynk respectfully requests continued experimental authority to transmit at 2229.5 MHz when needed to resolve the factory reset issue. Consequently, all attachments submitted with STA 1783-EX-ST-2020 remain relevant and applicable to this experimental request.

Technical issues with the S-band and regulatory licensing timeframes have delayed the testing of the experimental payload. However, with recent progress, Lynk believes the original mission of *Lynk the World* can be successfully completed under the request for continued operations.

**(3) Description of the operation to be conducted and its purpose.**

The purpose and operation of the experimental request herein remain the same as the purpose and operation authorized under STA 1783-EX-ST-2020. Consistent with that filing, all proposed operations will continue to be conducted on a non-interference, non-protected basis. Lynk accepts all conditions placed on STA 1783-EX-ST-2020 if deemed necessary for authorization of the experimental license request herein.

**(4) Timing of proposed operation.**

Lynk requests an experimental license for 24 months starting March 21, 2021.

**(5) Class(es) of station (fixed, mobile, fixed/mobile) and call sign of station (if applicable).**

Space Station (mobile, NGSO)                      Earth Stations (fixed)



**(6) Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.**

All locations remain the same as filed and authorized under STA 1783-EX-ST-2020.

**(7) Transmit equipment to be used.**

# of Units	Equipment	Manufacturer	Model
1	S-band Spacecraft Patch Antenna	Lynk	Custom
1	S-band Ground Transceiver	SatLab	Custom
1	SRS-3 Transceiver	SatLab	SRS

**(8) Frequencies.**

See below, Question (13)—i.e., same as stated in narrative statement of and authorized under STA 1783-EX-ST-2020.

**(9) Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).**

See below, Question (13)—i.e., same as authorized under STA 1783-EX-ST-2020.

**(10) Emission designator.**

See below, Question (13)—i.e., same as authorized under STA 1783-EX-ST-2020.

**(11) Overall height of antenna structure above the ground.**

Ground stations are less than six meters above ground; not applicable to space station.

**(12) Orbital Debris Mitigation.**

The experimental request herein is identical to the *Lynk the World* operations currently covered and authorized under STA 1433-EX-ST-2020, and consequently, the Orbital Debris mitigation showing made under that filing remains relevant applicable to this experimental request.



**(13) Supplemental Technical Information.**

Parameters	Space Station		Earth Station	
	Tx	Rx	Tx	Rx
Authorized Frequencies (1783-EX-ST-2020)	2229.5 MHz	2079.7184-2080-2816 MHz (domestic & international sites)	2079.7184-2080-2816 MHz (domestic & international sites)	2259.7184-2260-2816 MHz (domestic & international sites)
		2029.5 MHz (international sites only)	2029.5 MHz (international sites only)	2229.5 MHz (international sites only)
EIRP	5.37 dBW	-	43 dBW	-
ERP	3.22 dBW 2.1 W	-	40.85 dBW 12171.7 W	-
Output Power	0.904 W	-	10.7 W	-
Antenna Gain	5.81 dBi	5.65 dBi	32.7 dBi at 2025 MHz	33.7 dBi at 2250 MHz
Fixed / Mobile	Mobile		Fixed	
G/T at 5°	-		10.7 dBW at 2250 MHz with 70 K of Antenna Temperature	
Frequency Tolerance	0.00001%			
Emission Designator	563KG1D			
Modulating Signal	Digital on/off quantized			
Kill Switch Information remains the same as under STA 1433-EX-ST-2020.				