

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	Blanket License	E5: Call Sign:
E2: Contact Name:	Astranis NOC	E6: Phone Number: (877) 362-1747
E3: Street:		E7: City:
E4: State:		E8: County:
		E9: Zip Code:
E10: Area of Operation:	United States and it's territories	
E11: Latitude:	0° 0' 0"	
E12: Longitude:	0° 0' 0"	
E13: Lat/Lon Coordinates are:	nad-83	
E14: Site Elevation (AMSL):	0	

If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	Yes
If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS) or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement?	N/A
Is Frequency Coordination required?	No
Is coordination with another country required?	No
Is FAA notification required?	No
Is facility operated by remote control?	Yes

POINTS OF COMMUNICATION

Satellite Name: PERMITTED LIST

E21. Common Name: PERMITTED LIST	E22. ITU Name: PERMITTED LIST
E23. Orbit Location: GSO	E24. Country:

Satellite Name: ARRAKIS-1 (S3150)	
E21. Common Name: Nu View Bravo (S3150)	E22. ITU Name: ARRAKIS-1 (S3150)
E23. Orbit Location: 83.1° W.L.	E24. Country: USA

Satellite Name: ARRAKIS-1 (S3151)	
E21. Common Name: Nu View Alpha (S3151)	E22. ITU Name: ARRAKIS-1 (S3151)
E23. Orbit Location: 83.1° W.L.	E24. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	Kymeta Goshawk U8	9999	Kymeta	Goshawk U8	0.82	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
Kymeta Goshawk U8	0/0	0	0	0	16.3	0	47.2

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	L3Harris Shadow	9999	L3Harris	Shadow	0.45	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
L3Harris Shadow	0.42/0.45	0	0	0	8.9	0	43.6

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	Global Konet Mini	9999	Global Konet	Mini	0.61	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
Global Konet Mini	0.5/0.61	0	0	0	4.4	0	43

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	Requitech RESA M Ku	9999	Requitech	RESA M Ku	0.9	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
Requitech	0.5/0.9	0	0	0	4	0	46.1

RESA M Ku							
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Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	Kymeta Osprey U8	9999	Kymeta	Goshawk U8	0.82	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
Kymeta Osprey U8	0/0	0	0	0	16.3	0	47.2

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size (meters)	E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz)
Blanket License	Satcube Ku	9999	Satcube	Ku	0.47	undefined at 0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at Antenna Flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for all carriers (dBW)
Satcube Ku	0.33/0.47	0	0	0	29.5	0	46

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
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Kymeta Goshawk U8	10950 11200	R	null	30M0G1W	0	0
E50. Modulation and Services QPSK, 8PSK, 16QAM, data and monitoring						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Kymeta Goshawk U8	11450 12200	R	null	30M0G1W	0	0
E50. Modulation and Services QPSK, 8PSK, 16QAM, data and monitoring						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Kymeta Goshawk U8	14000 14500	T	null	30M0G1W	47.2	8.4493874
E50. Modulation and Services QPSK, 8PSK, 16QAM, data and monitoring						

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Requitech RESA M Ku	10950 11200	R	null	30M0G1W	0	0
E50. Modulation and Services						
QPSK, 8PSK, 16QAM, data and monitoring						

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E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Requitech RESA M Ku	11450 12200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Requitech RESA M Ku	14000 14500	T	null	30M0G1W	46.1	7.3493874

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Kymeta Osprey U8	10950 11200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per	E49. Maximum ERIP Density per Carrier
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	(MHz)				Carrier (dBW)	(dBW/4kHz)
Kymeta Osprey U8	11450 12200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Kymeta Osprey U8	14000 14500	T	null	30M0G1W	47.2	8.4493874

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Global Konet Mini	10950 11200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Global Konet Mini	11450 12200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Global Konet Mini	14000 14500	T	null	30M0G1W	43	4.2493874

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
L3Harris Shadow	10950 11200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
L3Harris Shadow	11450 12200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per	E49. Maximum ERIP Density per Carrier
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	(MHz)				Carrier (dBW)	(dBW/4kHz)
L3Harris Shadow	14000 14500	T	null	30M0G1W	43.6	4.8493874

E50. Modulation and Services

QPSK, 8PSK, 16APSK / Data

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Satcube Ku	10950 11200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Satcube Ku	11450 12200	R	null	30M0G1W	0	0

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Satcube Ku	14000 14500	T	null	30M0G1W	46	7.2493874

E50. Modulation and Services

QPSK, 8PSK, 16QAM, data and monitoring

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern/Western Limit	E57. Antenna Elevation Angle Eastern/Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Kymeta Goshawk U8	Geostationary	10950 11200	52.5 / 52.5	360 / 360	30 / 30	-999

Kymeta Goshawk U8Geostationary11450

1220052.5 / 52.5360 / 36030 / 30-999Kymeta Goshawk U8Geostationary14000
 1450052.5 / 52.5360 / 36030 / 30-25Requitech RESA M KuGeostationary11450
 1220052.5 / 52.5360 / 36030 / 30-999Requitech RESA M KuGeostationary14000
 1450052.5 / 52.5360 / 36030 / 30-28Kymeta Osprey U8Geostationary10950
 1120052.5 / 52.5360 / 36030 / 30-999Kymeta Osprey U8Geostationary11450
 1220052.5 / 52.5360 / 36030 / 30-999Global Konet MiniGeostationary11450
 1220052.5 / 52.5360 / 36030 / 30-999Global Konet MiniGeostationary14000
 1450052.5 / 52.5360 / 36030 / 30-20.5L3Harris ShadowGeostationary11450
 1220052.5 / 52.5360 / 36030 / 30-999L3Harris ShadowGeostationary14000
 1450052.5 / 52.5360 / 36030 / 30-17.5Global Konet MiniGeostationary10950
 1120052.5 / 52.5360 / 36030 / 30-999Requitech RESA M KuGeostationary10950
 1120052.5 / 52.5360 / 36030 / 30-999L3Harris ShadowGeostationary10950
 1120052.5 / 52.5360 / 36030 / 30-999Satcube KuGeostationary10950
 1120052.5 / 52.5360 / 36030 / 30-999Satcube KuGeostationary11450
 1220052.5 / 52.5360 / 36030 / 30-999Satcube KuGeostationary14000
 1450052.5 / 52.5360 / 36030 / 30-12.3Kymeta Osprey U8Geostationary14000
 1450052.5 / 52.5360 / 36030 / 30-25

REMOTE CONTROL POINT LOCATION

E61. Call Sign:		E65. Phone Number: 703-939-5045	
E62. Street Address: 575 20th St			
E63. City: San Francisco	E67. County: USA	E64/68. State/Country: undefined / undefined	E66. Zip Code: 94107

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