

Frequency Bands Requested (Response to Question 24)

The Hughes Ka band gateway earth stations will operate in the United States as detailed in the table below for uplink (Earth-to-space) and downlink (space-to-Earth) operations:

Frequency Band (GHz)	Function	Notes
27.5-28.35	Secondary Gateway Uplink	LMDS Primary Band
28.35-28.6	Primary Gateway Uplink	
28.6-29.0	Secondary Gateway Uplink	NGSO FSS Primary Band
29.5-30.0	Primary Gateway Uplink	(Also Brazil Subscriber Link)
18.3-18.8	Primary Gateway Downlink	(Also Brazil Subscriber Link)
19.7-20.2	Primary Gateway Downlink	

The Ka band payload will also utilize the band 17.8-18.3 GHz in the downlink direction for the spot beams serving Brazil, but these frequencies will not be used for gateway downlinks, and therefore are not part of this application.