

Required Field

	System FCC License No	
	FCC License Exp Date	
*	Frequency (Upper)	14820MHz
*	Frequency (Lower)	14470MHz
*	Transmit Power	63dBm
*	TX Manufacturer/Model No.	346050
*	TX Antenna Manufacturer	Cubic
	Emission Designator	34M3G1D
	Circuit Loss	
		Flat vertically mounted panel, beam forming, multi-beam capable aperture. Fixed elevation fan beam (nominal gain +/- 15 degrees from horizon), steerable(via beam forming) azimuth.
*	Antenna Type	
*	Antenna Gain	20.5dB
	Antenna Polarization	RHCP
	Antenna Axial Ratio	
*	Antenna Location	Pendleton UAS Test Range, OR
	Latitude	46.695324
	Direction	Air/Gnd
	Longitude	-118.83835
	Direction	Air/Gnd
	Radius of Operation	150nmi
*	Data Rate (Digital) or Bandwidth (Analog)	45Mbps
*	Modulation Scheme	QPSK
	Emission Bandwidth	
	-3dB	
	-20dB	
	-40dB	
	-60dB	
	Transmit Filter Bandwidth	
	-3dB	
	-20dB	
	-40dB	
	-60dB	

Required Field

*	Frequency (Upper)	15335MHz
*	Frequency (Lower)	15180MHz
*	RX Manufacturer/Model No.	346050
*	RX Antenna Manufacturer	Cubic
	Circuit Loss	
		Flat vertically mounted panel, beam forming, multi-beam capable aperture. Fixed elevation fan beam (nominal gain +/- 15 degrees from horizon), steerable(via beam forming) azimuth.
*	Antenna Type	
*	Antenna Gain	20.5dB
	Antenna Polarization	RHCP
	Antenna Axial Ratio	
	Receiver Noise Figure	
	Antenna Noise Temperature	
*	Antenna Location	Pendleton UAS Test Range, OR
	Latitude	46.695324
	Direction	Air/Gnd
	Longitude	-118.83835
	Direction	Air/Gnd
	Radius of Operation	150nmi
	RF Selectivity	
	-3dB	
	-20dB	
	-40dB	
	-60dB	
	Call Sign	

Remarks

(U) There are four transmit and four receive panels, oriented at 90 degrees to one another to cover 360 degrees in azimuth. Each transmit and receive panel has 256 elements, arranged as 8 elements vertically and 32 elements horizontally. The elevation beam is fixed, and the azimuth is electronically steered.