

## TECHNICAL DATA

Hub Antenna: General Dynamics, Satcom 4.8 meter dish

Hub Location: 43 ° 5 ' 22.6 " N / 77 ° 35 ' 22.2 " W  
1350 Jefferson Road, Henrietta (Rochester), NY

Hub Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Hub Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz

Polarization: Horizontal and Vertical

Gain: Rx 53.5 dBi at 11.575 GHz, Tx 55.2 dBi at 14.125 GHz

Input Pwr (at flange) 6.47

Total EIRP 63.3 dBW for all carriers

EIRP density 34.8 dBW/4kHz - 13750-14000 MHz  
34.7 dBW/4kHz - 14000-14500 MHz

Emission 4M68G7D

L3Harris incorporates by reference the radiation hazard study included in its original filing under FCC File No. SES-LIC-20200506-00499.

### Remote VSAT Terminal data

#### **Shadow .40M**

Antenna: L3Harris Shadow .40m VSAT terminal

Transmit Freq: 13750-14000 MHz, 14000-14500 MHz

Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz

Polarization: Horizontal

Gain: Rx 35.1 dBi at 11.575 GHz, Tx 36.9 dBi at 14.125 GHz

Input Pwr (at flange) 53.0

Total EIRP 41.7 dBW for all carriers

EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz

Emission 625KG7D

**Panther II .60M**

Antenna: L3Harris Panther II .60m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 35.3 dBi at 11.575 GHz, Tx 37.3 dBi at 14.125 GHz  
Input Pwr (at flange) 18.62  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Panther II .96M**

Antenna: L3Harris Panther II .96m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 39.3 dBi at 11.575 GHz, Tx 41.3 dBi at 14.125 GHz  
Input Pwr (at flange) 7.41  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Panther II 1.3M**

Antenna: L3Harris Panther II 1.3m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 42.9 dBi at 11.575 GHz, Tx 43.9 dBi at 14.125 GHz  
Input Pwr (at flange) 4.7  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Hawkeye III 1.2M**

Antenna: L3Harris Hawkeye III 1.2m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 41.6 dBi at 11.575 GHz, Tx 43.2 dBi at 14.125 GHz  
Input Pwr (at flange) 4.79  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Hawkeye III 1.6M**

Antenna: L3Harris Hawkeye III 1.6m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 43.3 dBi at 11.575 GHz, Tx 45.3 dBi at 14.125 GHz  
Input Pwr (at flange) 2.95  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Hawkeye III 2.0M**

Antenna: L3Harris Hawkeye III 2.0m VSAT terminal  
Transmit Freq: 13750-14000 MHz, 14000-14500 MHz  
Receive Freq: 10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz  
Polarization: Horizontal  
Gain: Rx 45.7 dBi at 11.575 GHz, Tx 47.3 dBi at 14.125 GHz  
Input Pwr (at flange) 1.86  
Total EIRP 41.7 dBW for all carriers  
EIRP density 19.3 dBW/4kHz - 13750-14000 MHz  
19.3 dBW/4kHz - 14000-14500 MHz  
Emission 625KG7D

**Hawkeye III 2.4M**

Antenna:	L3Harris Hawkeye III 2.4m VSAT terminal
Transmit Freq:	13750-14000 MHz, 14000-14500 MHz
Receive Freq:	10950-11200 MHz, 11450-11700 MHz, 11700-12200 MHz
Polarization:	Horizontal
Gain:	Rx 47.3 dBi at 11.575 GHz, Tx 48.8 dBi at 14.125 GHz
Input Pwr (at flange)	1.32
Total EIRP	41.7 dBW for all carriers
EIRP density	19.3 dBW/4kHz - 13750-14000 MHz 19.3 dBW/4kHz - 14000-14500 MHz
Emission	625KG7D