

TECHNICAL SPECIFICATIONS

Conventional Ku Band
Transmit/Receive

CONTROL POINT

Name Paul Tanner (Truck Operator)
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MOBILE TRANSMIT ANTENNA

Transmit Antenna Manufacturer AVL Technologies
Transmit Antenna Model Number 1610K-11
Transmit Antenna Bandwidth 1.0@-3dB/1.6@-10dB
Transmit Antenna Gain 2 port - 46.0 dBi Typical

Frequency Coordination Limits

(a) Range of Satellite Arc:

(1) Western Limit 143 W °
(2) Eastern Limit 69 W °

(b) Antenna Elevation Angle at:

(1) Western Limit 31.6@127 W °min
(2) Eastern Limit 52.3@63 W ° min

(c) Maximum EIRP Density Toward Horizon 50.08

Antenna Facilities:

(a) Use of Antenna Occasional
(b) Antenna Size 1.6 meters
(c) Type of feed Switchable Wide Band Offset Feed Horn
(d) Antenna gain in dBi and the frequency at which it is measured:
45.5 dBi min/46.0 dBi typical across 13.75 to 14.5 GHz

Receiving System Noise Temperature 48° K at 10° Elevation

Specifics of operation

Frequency limits: 14 - 14.5 GHz

RECEIVE ANTENNA

Various Receive Site Used No
Receive Antenna Manufacturer Andrew
Receive Antenna Model Number 206317-2/ESA46-124

Receive Antenna Bandwith .34 @ -3dB
.67 @ -15 dB

Receive Antenna Gain 53.8

Antenna AGL 3 meters

TRANSMITTER

Transmitter Manufacturer Advantech Wireless
Transmitter Model (100 W) SSPB-KS-2200G-100W
Number of high power amplifiers 1
Transmitter Frequency Bands (T/R) 14-14.5 GHz
(T/R) 11.7 - 12.2 GHz

Transmitter Digital Output Power 80 W +49 dBm/100W +50 dBm
Antenna Polarization Linear

Max EIRP for each RF carrier in the main beam:
74.9 dBw

Max EIRP for density for each RF carrier in the main beam:
50.5 dBw

Does the Transmitter employ Automatic Transmitter Power Control? No

TRANSMIT LOCATION (KMRA) in NAD 83

a. Centerpoint Coordinates
26 - 36 - 27 N Latitude
81 -51 - 48 W Longitude

b. Radius of Operation 500 miles