

Antenna A1 Frequency L1	
Site Information	
1) Facility Name and Address	Orlando Citation Service Center
2) Point Of Contact Name & Phone	Robert Decker, Customer Service Rep, Ph 407-816-6833
3) Location of switch & shutoff instructions	Breaker box in 3rd floor electrical room, panel 2AR2, breaker #2.
4) Coordinates, NAD 83, ddd-mm-ss.s	28-26-48.7 N 81-19-52.9 W
5) Coordinate Description	Center of Hangar facility, between North hangar and South Hangar
6) Ground Elevation (ft)	147
Antenna - Receiving (RX)	
7) Make and Model	GPS Source L1L23G
8) Gain (dBi)	36
Antenna - Re-radiating (TX)	
9) Make and Model	GPS Source L1L22GP
10) Gain (dBi)	3.5
11) Distance to nearest outer wall (ft)	30
12) Location Description	South Hangar, North Wall
13) Antenna Height AGL (ft)	40
Free Space Loss	68.23
Amplifier	
14) Make and Model	GPS Source S14
15) Gain (max rating in dB)	20
Coax - RX Antenna to Amp	
16) Type or Description	ECS 311201
17) Attenuation @ L1 (dB/100 ft)	6.5
18) Length (ft)	80
Coax Loss - RX Antenna to Amp	5.2
Coax - Amp to TX Antenna	
19) Type or Description	ECS 311201
20) Attenuation @ L1 (dB/100 ft)	6.5
21) Length (ft)	50
Coax Loss - Amp to TX Antenna	3.25
Attenuator	
22) Make & Model	NA
23) Attenuation @ L1 (dB)	0
Calculated Signal Strength 30m Outside Building (dBm)*	-147.18
Radiated Power from Antenna (dBm ERP)	-81.10
Radiated Power from Antenna pW ERP	7.77
Power at Transmitter (Amplifier) Output (dBm)	-79.20
Power at Transmitter (Amplifier) Output (pW)	12.02

* This value MUST be less than negative 140 dBm

Radiated Power from Antenna (dBm EIRP)
Radiated Power from Antenna (pW EIRP)

-78.95
12.73503081

Antenna A1 Frequency L2	
Site Information	
1) Facility Name and Address	Orlando Citation Service Center
2) Point Of Contact Name & Phone	Robert Decker, Customer Service Rep, Ph 407-816-6833
3) Location of switch & shutoff instructions	Breaker box in 3rd floor electrical room, panel 2AR2, breaker #2.
4) Coordinates, NAD 83, ddd-mm-ss.s	28-26-48.7 N 81-19-52.9 W
5) Coordinate Description	Center of Hangar facility, between North hangar and South Hangar
6) Ground Elevation (ft)	147
Antenna - Receiving (RX)	
7) Make and Model	GPS Source L1L23G
8) Gain (dBi)	36
Antenna - Re-radiating (TX)	
9) Make and Model	GPS Source L1L22GP
10) Gain (dBi)	3.5
11) Distance to nearest outer wall (ft)	30
12) Location Description	South Hangar, North Wall
13) Antenna Height AGL (ft)	40
Free Space Loss	66.06
Amplifier	
14) Make and Model	GPS Source S14
15) Gain (max rating in dB)	20
Coax - RX Antenna to Amp	
16) Type or Description	ECS 311201
17) Attenuation @ L2 (dB/100 ft)	5.8
18) Length (ft)	80
Coax Loss - RX Antenna to Amp	4.64
Coax - Amp to TX Antenna	
19) Type or Description	ECS 311201
20) Attenuation @ L2 (dB/100 ft)	5.8
21) Length (ft)	50
Coax Loss - Amp to TX Antenna	2.9
Attenuator	
22) Make & Model	NA
23) Attenuation @ L2 (dB)	0
Calculated Signal Strength 30m Outside Building (dBm)*	-147.10
Radiated Power from Antenna (dBm ERP)	-83.19
Radiated Power from Antenna pW ERP	4.80
Power at Transmitter (Amplifier) Output (dBm)	-81.64
Power at Transmitter (Amplifier) Output (pW)	6.85

* This value **MUST** be less than negative 140 dBm

Radiated Power from Antenna (dBm EIRP)
Radiated Power from Antenna (pW EIRP)

-81.04
7.870457897

Antenna A2 Frequency L1	
Site Information	
1) Facility Name and Address	Orlando Citation Service Center
2) Point Of Contact Name & Phone	Robert Decker, Customer Service Rep, Ph 407-816-6833
3) Location of switch & shutoff instructions	Breaker box in 3rd floor electrical room, panel 2AR2, breaker #2.
4) Coordinates, NAD 83, ddd-mm-ss.s	28-26-48.9 N 81-19-52.7 W
5) Coordinate Description	Center of Hangar facility, between North hangar and South Hangar
6) Ground Elevation (ft)	147
Antenna - Receiving (RX)	
7) Make and Model	GPS Source L1L23G
8) Gain (dBi)	36
Antenna - Re-radiating (TX)	
9) Make and Model	GPS Source L1L22GP
10) Gain (dBi)	3.5
11) Distance to nearest outer wall (ft)	16
12) Location Description	North Hangar, South wall
13) Antenna Height AGL (ft)	40
Free Space Loss	67.23
Amplifier	
14) Make and Model	GPS Source S14
15) Gain (max rating in dB)	20
Coax - RX Antenna to Amp	
16) Type or Description	ECS 311201
17) Attenuation @ L1 (dB/100 ft)	6.5
18) Length (ft)	80
Coax Loss - RX Antenna to Amp	5.2
Coax - Amp to TX Antenna	
19) Type or Description	ECS 311201
20) Attenuation @ L1 (dB/100 ft)	6.5
21) Length (ft)	7
Coax Loss - Amp to TX Antenna	0.455
Attenuator	
22) Make & Model	NA
23) Attenuation @ L1 (dB)	0
Calculated Signal Strength 30m Outside Building (dBm)*	
Radiated Power from Antenna (dBm ERP)	-143.38
Radiated Power from Antenna pW ERP	14.78
Power at Transmitter (Amplifier) Output (dBm)	-79.20
Power at Transmitter (Amplifier) Output (pW)	12.02

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Radiated Power from Antenna (dBm EIRP)

-76.155

Radiated Power from Antenna (pW EIRP)

24.23817965

Antenna A2 Frequency L2	
Site Information	
1) Facility Name and Address	Orlando Citation Service Center
2) Point Of Contact Name & Phone	Robert Decker, Customer Service Rep, Ph 407-816-6833
3) Location of switch & shutoff instructions	Breaker box in 3rd floor electrical room, panel 2AR2, breaker #2.
4) Coordinates, NAD 83, ddd-mm-ss.s	28-26-48.9 N 81-19-52.7 W
5) Coordinate Description	Center of Hangar facility, between North hangar and South Hangar
6) Ground Elevation (ft)	147
Antenna - Receiving (RX)	
7) Make and Model	GPS Source L1L23G
8) Gain (dBi)	36
Antenna - Re-radiating (TX)	
9) Make and Model	GPS Source L1L22GP
10) Gain (dBi)	3.5
11) Distance to nearest outer wall (ft)	16
12) Location Description	North Hangar, South wall
13) Antenna Height AGL (ft)	40
Free Space Loss	65.06
Amplifier	
14) Make and Model	GPS Source S14
15) Gain (max rating in dB)	20
Coax - RX Antenna to Amp	
16) Type or Description	ECS 311201
17) Attenuation @ L2 (dB/100 ft)	5.8
18) Length (ft)	80
Coax Loss - RX Antenna to Amp	4.64
Coax - Amp to TX Antenna	
19) Type or Description	ECS 311201
20) Attenuation @ L2 (dB/100 ft)	5.8
21) Length (ft)	7
Coax Loss - Amp to TX Antenna	0.406
Attenuator	
22) Make & Model	NA
23) Attenuation @ L2 (dB)	0
Calculated Signal Strength 30m Outside Building (dBm)*	
	-143.60
Radiated Power from Antenna (dBm ERP)	-80.69
Radiated Power from Antenna pW ERP	8.52
Power at Transmitter (Amplifier) Output (dBm)	-81.64
Power at Transmitter (Amplifier) Output (pW)	6.85

* This value MUST be less than negative 140 dBm

Radiated Power from Antenna (dBm EIRP)

-78.546

Radiated Power from Antenna (pW EIRP)

13.97655056