

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5655 www.comsearch.com

PCN Date: 12/01/2009

Job Number: 091201COMSAN03

New Path

RCN Number: 09120113

Administrative Information

CA-SJC0243A CA
City/County Santa Clara/Santa Clara
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SJC0023B CA

San Jose/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WQKU524
CLESP3
Clearwire Spectrum Holdings III, LL
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °23' 14.8~ N	37 °24' 26.5~ N
Longitude (NAD 83)	121 °57' 49.3~ W	121 °55' 34.3~ W
Ground Elevation (m/ft-AMSL)	7.92 / 26.0	7.92 / 26.0
Antenna Structure Registration #		
Path Azimuth (°)	56.337	236.360
Path Length (km / miles)	3.989 / 2.479	

Transmit Antenna

87012A	87012A
ANDREW CORPORATION	ANDREW CORPORATION
VHLP2-18	VHLP2-18
38.7 / 2.10 / -0.26	38.7 / 2.10 / 0.24
36.58 / 120.0	19.20 / 63.0

Receive Antenna

Same As Transmit

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

TEMU74	TEMU74
DRAGONWAVE INC	DRAGONWAVE INC
18HA50HFC322V01	18HA50HFC322V01
Horizon Duo-Adj Channel	Horizon Duo-Adj Channel
45M8D7W 256 QAM	45M8D7W 256 QAM
1 CH DIG 322000.000	1 CH DIG 322000.000
0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
14.3	14.3
-38.2	-38.2
53.0	53.0
0.0 / 0.0	0.0 / 0.0
129.9	

Transmit Frequencies (MHz)	17815.0000H(2)	17865.0000V(3)	19375.0000H(2)	19425.0000V(3)
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PCN Date: 12/01/2009

Job Number 091201COMSAN03

New Path

RCN Number: 09120113

Administrative Information

CA-SJC0107A CA
City/County East Palo Alto/San Mateo
Status / License Basis Engineering Proposal / PRIMARY OPERATION
Call Sign
Licensee Code CLESP3
Licensee Name Clearwire Spectrum Holdings III, LL
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

CA-SJC0036A CA

Mountain View/Santa Clara
Engineering Proposal / PRIMARY OPERATION
WQKU515
CLESP3
Clearwire Spectrum Holdings III, LL
FXO -- Fixed

Site Information

Latitude (NAD 83)	37 °27' 33.7~ N	37 °25' 21.4~ N
Longitude (NAD 83)	122 °8' 29.8~ W	122 °5' 8.0~ W
Ground Elevation (m/ft-AMSL)	8.84 / 29.0	3.05 / 10.0
Antenna Structure Registration #		
Path Azimuth (°)	129.411	309.445
Path Length (km / miles)	6.422 / 3.991	

Transmit Antenna

RH6969	RH6969
MANUFACTURER RADIO WAVES, INC	RADIO WAVES, INC
MODEL HP3-18	HP3-18
GAIN (dBi) / BEAMWIDTH (°) / TILT (°) 42.0 / 1.30 / -0.12	42.0 / 1.30 / 0.08
CENTERLINE (m / ft - AGL) 25.91 / 85.0	20.73 / 68.0

Receive Antenna

Same As Transmit

MANUFACTURER
MODEL
GAIN (dBi) / BEAMWIDTH (°)
CENTERLINE (m / ft - AGL)

Diversity Receive Antenna

MANUFACTURER
MODEL
GAIN (dBi) / BEAMWIDTH (°)
CENTERLINE (m / ft - AGL)

Radio Information

TEM090	TEM090
DRAGONWAVE INC	DRAGONWAVE INC
18HD50HFC215V02	18HD50HFC215V02
HORIZON DUO	HORIZON DUO
EMISSION DESIGNATOR / MODULATION 45M8D7W 64 QAM	45M8D7W 64 QAM
LOADING 1 CH DIG 215000.000	1 CH DIG 215000.000
STABILITY (%) 0.001	0.001
Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm) 13.5	13.5
Received Level (dBm) -38.2	-38.2
EIRP (dBm) 54.7	54.7
Fixed Loss: Tx / Common (dB) 0.0 / 0.8	0.0 / 0.8
Free Space Loss (dB) 134.1	

Transmit Frequencies (MHz)

19375.0000H(2)	19475.0000H(4)	17815.0000H(2)	17915.0000H(4)
19575.0000V(6)	19675.0000V(8)	18015.0000V(6)	18115.0000V(8)