

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5824 www.comsearch.com

PCN Date: 07/21/2010

Job Number: 100120COMSSL01

Administrative Information		CA-SJC0147D CA	CA-SJC0141A CA
City/County	Los Gatos/Santa Clara	Saratoga/Santa Clara	
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION	
Call Sign		WQMA300	
Licensee Code	CLESP3	CLESP3	
Licensee Name	Clearwire Spectrum Holdings III, LL	Clearwire Spectrum Holdings III, LL	
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed	
Site Information			
Latitude (NAD 83)	37 °15' 20.9~ N	37 °15' 55.0~ N	
Longitude (NAD 83)	121 °59' 7.9~ W	122 °0' 24.0~ W	
Ground Elevation (m/ft-AMSL)	138.30 / 453.7	102.70 / 336.9	
Antenna Structure Registration #			
Path Azimuth (°)	299.282	119.269	
Path Length (km / miles)		2.150 / 1.336	
Transmit Antenna			
Manufacturer	87016A	87016A	
Model	ANDREW CORPORATION	ANDREW CORPORATION	
Gain(dBi) / Beamwidth(°) / Tilt(°)	VHLP2-23	VHLP2-23	
Centerline (m / ft - AGL)	40.4 / 1.60 / -0.80	40.4 / 1.60 / 0.79	
	18.29 / 60.0	24.08 / 79.0	
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			
Manufacturer	TEMQ16	TEMQ16	
Model	DRAGONWAVE INC	DRAGONWAVE INC	
Model Description	23HD50SFC322V02	23HD50SFC322V02	
Emission Designator / Modulation	HORIZON DUO	HORIZON DUO	
Loading	45M8D7W 256 QAM	45M8D7W 256 QAM	
Stability (%)	1 CH DIG 322000.000	1 CH DIG 322000.000	
	0.001	0.001	
	Nominal Coordinated Maximum	Nominal Coordinated Maximum	
Power (dBm)	5.5	5.5	
Received Level (dBm)	-39.7	-39.7	
EIRP (dBm)	45.9	45.9	
Fixed Loss: Tx / Common (dB)	0.0 / 0.0	0.0 / 0.0	
Free Space Loss (dB)		126.0	
Transmit Frequencies (MHz)	23025.0000V(1)	23175.0000V(4)	21825.0000V(1) 21975.0000V(4)

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Job Number 100120COMSSL01

Administrative Information		CA-SJC0147D CA	CA-SJC0149A CA
City/County	Los Gatos/Santa Clara	Los Gatos/Santa Clara	
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION	
Call Sign		WQMA708	
Licensee Code	CLESP3	CLESP3	
Licensee Name	Clearwire Spectrum Holdings III, LL	Clearwire Spectrum Holdings III, LL	
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed	
Site Information			
Latitude (NAD 83)	37 °15' 20.9~ N	37 °15' 54.3~ N	
Longitude (NAD 83)	121 °59' 7.9~ W	121 °58' 55.2~ W	
Ground Elevation (m/ft-AMSL)	138.30 / 453.7	80.10 / 262.8	
Antenna Structure Registration #			
Path Azimuth (°)	16.904	196.906	
Path Length (km / miles)		1.076 / 0.669	
Transmit Antenna			
Manufacturer	87014A	87014A	
Model	ANDREW CORPORATION	ANDREW CORPORATION	
Gain(dBi) / Beamwidth(°) / Tilt(°)	VHLP1-23	VHLP1-23	
Centerline (m / ft - AGL)	35.3 / 3.00 / -4.71	35.3 / 3.00 / 4.70	
	48.62 / 159.5	18.29 / 60.0	
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			
Manufacturer	TEMQ16	TEMQ16	
Model	DRAGONWAVE INC	DRAGONWAVE INC	
Model Description	23HD50SFC322V02	23HD50SFC322V02	
Emission Designator / Modulation	HORIZON DUO	HORIZON DUO	
Loading	45M8D7W 256 QAM	45M8D7W 256 QAM	
Stability (%)	1 CH DIG 322000.000	1 CH DIG 322000.000	
	0.001	0.001	
	Nominal Coordinated Maximum	Nominal Coordinated Maximum	
Power (dBm)	5.5	5.5	
Received Level (dBm)	-43.9	-43.9	
EIRP (dBm)	40.8	40.8	
Fixed Loss: Tx / Common (dB)	0.0 / 0.0	0.0 / 0.0	
Free Space Loss (dB)		120.0	
Transmit Frequencies (MHz)	23075.0000V(2)	23225.0000V(5)	21875.0000V(2) 22025.0000V(5)