

1196 Borregas Ave., Sunnyvale, CA 94089-1302, USA Tel: +1 (408) 542-5200, Fax: +1 (408) 542-5300

Attention: Reviewing Engineer

The HZB-U5358-155 radio is designed for fixed-mount point-to-point applications.

The maximum EIRP for the HZB-U5358-155 as defined in FCC 15.407 is +53 dBm at 5.725-5.825 GHz band and +30 dBm at 5.25-5.35 GHz band. For the worst case EIRP of +53dBm, the power density at 1.5 meters from an antenna is:

 $S = EIRP/4\pi R^2 = 7.1 W/m^2 = 0.71 mW/cm^2 < 1 mW/cm^2$

Where: S = Power densityR = distance to the center of radiation of the antenna

The near field power density is : $S_{nf} = 16\eta P/\pi D^2$. The worst case of near-field power density is when the radio output at the certified power of 51mW, η =1, and antenna dimension is the smallest (1 foot panel, with 1.414 foot diagonal distance)

 $S_{nf} max = 16x0.051/\pi (1.414x0.3048)^2 = 1.4 W/m^2 = 0.14 mW/cm^2 < 1 mW/cm^2$

Where: S_{nf} = maximum near –field power density P = power fed to the antenna η = aperture efficiency D = antenna diameter

Therefore, the power density is compliant with the limit for General Population/ Uncontrolled Exposure as specified in rule 1.1310.

If you should have any questions regarding this submission, please feel free to contact the undersigned.

Yours truly,

Caroline Yu Homologation Product Manager Western Multiplex Corporation