

Aperto Networks
2.5 GHz MMDS CPE Unit
FCC ID: PS6SR1000-A1

**RF Hazard Distance
Calculation**

mW/cm2 from Table1: 1.00

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
17.0	17.5	15.0

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (\text{Pwatts} * \text{Ggain} * 30)^{.5} / d, \text{ meters}$$

$$d = ((\text{Pwatts} * \text{G} * 30) / (3770 * S))^{.5}$$

$$\text{Pwatts} * \text{Ggain} = 10^{(\text{Pd} \text{Bm} - 30 + \text{GdBi}) / 10}$$

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less

The CPE antenna is a flat panel array will be integrally mounted on the outdoor transmitter unit. Maximum antenna gain is 17.5 dB.

Manufacturer: Mti Wireless Edge Ltd.
Model No. MT-364011

Antenna specification sheet is attached.

Specification

FLAT PANEL DIRECTIONAL ANTENNA

THE ANTENNA WILL COMPLY WITH ETSI EN 301 525 V1.1.1 (2000-06) TS1-TS3

This document specifies the electrical, mechanical & environmental characteristics of dual polarization, directional antenna MT-364011 .

MTI Part No	MT-364011
Type	
Regulatory Compliance	ETSI EN 301 525 V1.1.1(2000-06)TS1-TS3
Electrical	
Frequency Range	2.5-2.695 GHz
Gain (vs. frequency)	
2.5-2.54 GHz	16.5 dBi (min)
2.54-2.58 GHz	17dBi (min)
2.58-2.695 GHz	17.5dBi (min)
3 dB BW Azimuth	20 deg (typ)
Elevation	20 deg (typ)
Polarization	Dual-Vertical and Horizontal
VSWR	1.5 : 1 (typ) 2.0 : 1 (max)
Cross Polarization	- 20 dB (max) -25 dB (nom)
F/B Ratio	- 30 dB (max)
Input Impedance	50 Ohms
Power	1 Watt
Port to port isolation	25 dB (max)
First side lobes	-14.5 dB (max) -18 dB (typ)
Mechanical	
Dimensions (LXWXD) mm	300 x 300 x 10 mm (max)
Weight (kgs)	500 g (max)
Temperature (operating)	- 40 ° C to +65° C
Input Ped	2 x Hole for 1.3mm Pin