

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	16.0	12.6

Basis of Calculations:

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

$$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} * G_{\text{gain}}) / (3770 * S))^{.5}$$

$$P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$

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. Antenna gain is 16 dB.

Manufacturer: Mti Wireless Edge Ltd.
Model No. MT-30115

Antenna specification sheet is attached.

Specification



- [Home](#)
- [Point-to-Point](#)
- [Point-to-Multi-Point](#)
- [Wireless Local Loop](#)
- [Commercial Antennas](#)
- [Military Antennas](#)

- [MTI Corporate](#)
- [MTI Wireless Edge Ltd.](#)
- [System Engineering](#)
- [Representation](#)
- [Employment Opportunities](#)

[Home](#)[Site Map](#)[Search](#)[Contact us](#)

MDS/MMDS

2.6 GHz Base Antenna

General:

MTI Part Number:	MT - 30114	MT - 30115
Type:	Base	Base

Electrical:

Frequency Range (GHz):	2.5-2.7	2.5-2.7
Gain (dB):	16.5 (min.)	16 (min.)
3 dB BW Azimuth:	90° ± 4°	90° ± 3° (typ.)
Elevation:	0° (min.) at 2.5-2.6 GHz 4.7° (min.) at 2.7 GHz	0° (min.)
Polarization:	Linear (Horizontal)	Linear (Vertical)
VSWR:	1.5:1 (typ.)	1.5:1 (max.)
Sidelobes:		
Cross Polarization:	Main Lobe at 0° ±90° -20 dB (max) Main Lobe at 90° ±135° -20 dB (max) Main Lobe at 135° ±180° -32 dB (max)	Main Lobe at 0° ±90° -20 dB (max) Main Lobe at 90° ±135° -20 dB (max) Main Lobe at 135° ±180° -32 dB (max)
F/B Ratio:	-32 dB (max)	-32 dB (max)
Lightning Protection:	DC Grounded	DC Grounded

Mechanical:

Connector:	N-Type Female	N-Type Female
Dimensions (LxWxD) cm:	140x25x7.5	140x25x7.5
Temperature (operating):	-40° to +70° C	-40° to +70° C
Wind Load (survival):		

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