

# 700MHz Antennas

Antenna P/N		MT-221010/S	MT-222005/N	MT-223005/N	MT-223003/N	MT-223006/NV	MT-223002/NV
Type		Subscriber	Subscriber	Subscriber	Subscriber	Base Station	Base Station
<b>Electrical</b>							
Frequency Band	MHz	698-746	698-746	746-777	698-746	698-746	698-746
Gain	dBi (Min)	<b>2</b>	<b>8</b>	<b>9.5</b>	<b>10.5</b>	<b>13.5</b>	12 +/-0.5
Polarization		Vertical	Linear V/H	Linear V/H	Linear V/H	<b>Vertical</b>	<b>Vertical</b>
AZ/EL BW	Degree	360/70	60/60	42/55	45/55	<b>90/13</b>	<b>120/14</b>
ETSI		N/A	N/A		N/A	N/A	N/A
Sidelobe Level	dB (Max)	-	-		-	-	-
Cross Polarization Level	dB (Max)	-	-20	-26	-32(AZ) / -26(EL)	-22	-20
Front to Back Ratio	dB (Max)	-	-20	-25	-22	-20	-20
VSWR 50 Ohm		1.5:1	2:1	2:1	2:1	1.7:1	1.7:1
Max Input Power	Watt	6	6	6	6	20	20
Additional Features		Indoor Antenna	Available with 75 OHM F-Type				
<b>Mechanical</b>							
Size	mm	325x92x15	305x305x25	450x450x30	450x450x30	1620x300x115	1550x510x145
Weight	Kg (Max)	0.6	1.2	3	3	8	8
Connector		SMA Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		Stand Alone	MT-120018	MT-120018	MT-120018	MT-120021	MT-120021

Last Update: February, 2007

### Environmental

Temperature Range	-45 to +70 degree per IEC 68
Vibration	Random 4M3 per IEC 60721
Mechanical Shock	4M3 per IEC 60721
Humidity	95% per ETSI EN300
Water Tightness	Per IEC 529 IP67 (IP52 for some BTS antennas)
Salt Spray	500 hours per IEC 68
Solar Radiation	1000 hours per ASTM G53
Ice and Snow	25mm Radial
Wind Speed	160 Kmph Operation/220 Kmph Survival
Flammability	UL-94HB

### Notes

All specifications are subject to change without notice.  
Preliminary specs are for antennas under development.  
Upon request MTI may provide the complete spec controlled document for specific antenna.

### Key Features

- High-Quality Low-Cost
- Lightweight antenna with easy installation
- Low profile
- Environmental friendly
- Various polarities
- Various configurations such as standalone, integrated or internal component
- Narrow and broad band
- Meets ETSI electrical and environmental requirements
- Very aesthetic look

### Benefits

- Provides High performance Low Cost subscriber
- Reduces the cost of installation
- Maintains real estate aesthetic look and value
- Generates low wind load

MTI Wireless Edge Ltd.  
11 Hamelacha St.  
Afek Industrial Park  
Rosh Ha'ayin 48091, Israel  
Tel: +972-3-900-8900  
Fax: +972-3-900-8901/2  
[www.mtiwe.com](http://www.mtiwe.com)