

5.3/5.8GHz Subscriber Antennas

Antenna P/N		MT-465005/N	MT-485005/VHN	MT-485001	MT-485014	MT-485028/N	MT-485002	MT-485025/NVH	MT-486004/N	MT-20004/N	MT-486001
Type		Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber
Electrical		Preliminary									
Frequency Band	GHz	4.9-5.35	5.25-5.875	5.15-5.875	5.25-5.825	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.725-5.875	5.15-5.875
Gain	dBi (Min)	21	18	19	21	22	23	23	26	28	28
Polarity		Linear V/H	Dual V+H	Linear V/H	Linear V/H	Linear V/H	Linear V/H	Dual V+H	Linear V/H	Linear V/H	Linear V/H
Port to Port Isolation	dB (Min)	-	30	-	-	-	-	40	-	-	-
AZ/EL BW	Degree	9/9	17/17	18/18	11/11	9/9	9/9	9/9	6/6	4.5/4.5	4.5/4.5
ETSI		TS3	TS3	-	TS3	TS3	TS3	TS3	TS1-TS5	TS1-TS5	TS1-TS5
Sidelobe Level	dB (Max)	TS3	-12	-12	-20	TS3	TS3	TS3	TS1-TS5	TS1-TS5	TS1-TS5
Cross Polarization Level	dB (Max)	-28	-20	-23	-20	TS3	-28	TS3	-20	-28	-28
Front to Back Ratio	dB (Max)	-30	-30	-35	-30	-35	-32	-35	-30	-40	-40
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
Maximum Input Power	Watt	6	6	6	2	6	6	6	6	6	6
Additional Features		Public Security Band	Dual Pol.	Broadband	Diamond shape	Broadband Low Cost	Broadband High Grade	Dual Pol.	Broadband	ISM Only	Broad Band
Mechanical											
Size	mm	305x305x25	190x190x30	190x190x30	305x305x25	305x305x15	305x305x25	371x371x40	450x450x30	600x600x50	600x600x50
Weight	Kg (Max)	1.2	0.7	0.7	1.5	1.5	1.5	2.5	3	5	5
Connector		N-Type F	2 x N-Type F	N-Type F	SMP Female	N-Type F	N-Type F	2 x N-Type F	N-Type F	N-Type F	N-Type F
Mounting Kit		MT-120018	MT-120018/A	MT-120018/A	with 6" cable	MT-120018	MT-120018	MT-120018	MT-120018	MT-120019	MT-120019

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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

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5.3/5.8GHz Base Station Antennas and Omnidirectional Antennas

Antenna P/N		MT-444003/NV	MT-484033/NV	MT-484033/NH	MT-484032/NV	MT-484032/NH	MT-484034/NV	MT-484034/NH	MT-484026/NV	MT-484026/NH	MT-484026/NVH	MT-484027/NV	MT-484027/NH	MT-484027/NVH
Type		Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station
Electrical		Preliminary			Preliminary			Preliminary						
Frequency Band	GHz	4.9-5.35	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.25-5.875
Gain	dBi (Min)	15	16.5 +/-0.5	16.5	17	16.5	15	15	16	15	V-16/H-15	14	14	14
Polarity		Vertical	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Dual V+H	Vertical	Horizontal	Dual V+H
Port to Port Isolation	dB (Min)	-	-	-	-	-	-	-	-	-	35	-	-	50
AZ/EL BW	Degree	120/6	60/11	60/11	90/7	90/11	120/6	120/6	60/10	60/10	60/10	86/10	90/10	90/10
ETSI		CS3	CS3	CS3	CS3	CS3	CS3	CS3	CS3	CS3	CS3	CS3	CS2	CS2
Sidelobe Level	dB (Max)	CS3	-25@-/+90 Deg	-25@-/+90 Deg	-25@-/+135Deg	-25@-/+135Deg	CS3	CS3	-30@-/+90 Deg	-30@-/+90 Deg	-30@-/+90 Deg	-30@-/+135Deg	-28@-/+135Deg	-30@-/+135Deg
Cross Polarization Level	dB (Max)	CS3	-28	-23	-20	-20 (CS2)	CS3	CS3	-24	-24	-24	-25	-25	-25
Front to Back Ratio	dB (Max)	CS3	-35	-30	-30	-30	CS3	CS3	-30	-30	-30	-30	-30	-35
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
Maximum Input Power	Watt	6	6	6	6	6	6	6	6	6	6	6	6	6
Additional Features			Low Cost	Low Cost	Low Cost	Low Cost	Low Cost	Low Cost	Cosecant Sqrd	Cosecant Sqrd	Cosecant Sqrd	Cosecant Sqrd	Cosecant Sqrd	Cosecant Sqrd
									1st Null >-15dB	1st Null >-15dB	1st Null >-15dB	1st Null >-15dB	3rd Null >-16dB	3rd Null >-16dB
Mechanical														
Size	mm	550x250x17	350x150x30	350x150x30	530x260x11	530x260x27	550x250x17	550x200x60	436x250x10	436x250x10	436x250x10	436x250x10	436x250x10	860x272x10
Weight	Kg (Max)	1.5	1.5	1.5	2.5	2.5	1.5	2	2.2	2.2	2.2	2.2	2.2	5
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	2 x N-Type F	N-Type Female	N-Type Female	2 x N-Type F
Mounting Kit		MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019

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Antenna P/N		MT-482003/N	MT-482009/N	MT-483003/N	MT-484030/N
Type		Omni	Omni	Omni	Omni
Electrical		Preliminary			
Frequency Band	GHz	5.15-5.875	5.725-5.875	5.725-5.875	5.725-5.875
Gain	dBi (Min)	8	9	12	5
Polarity		Vertical	Vertical	Vertical	Vertical
Port to Port Isolation	dB (Min)	-	-	-	-
AZ/EL BW	Degree	360/6.5	360/6.5	360/4.8	60/2.6
ETSI		N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-11 EL Plane	-10 EL Plane	-12 EL Plane	10 EL Plane
Cross Polarization Level	dB (Max)	N/A	N/A	N/A	N/A
Front to Back Ratio	dB (Max)	N/A	N/A	N/A	N/A
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1	1.7:1
Maximum Input Power	Watt	4	6	6	6
Additional Features		Broadband	Elec' down tilt ISM Only	Elec' down tilt ISM Only	Elec' down tilt ISM Only
Mechanical					
Size	mm	500x60	540x50	680x50	280x75
Weight	Kg (Max)	2	2	0.7	.5
Connector		N-Type Female	N-Type F	N-Type F	N-Type F
Mounting Kit		Included	Included	Included	Included

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