

700MHz Antennas

Antenna P/N		MT-222005/N	MT-223005/N	MT-223003/N	MT-223006/NV	MT-223002/NV
Type		Subscriber	Subscriber	Subscriber	Base Station	Base Station
Electrical						
Frequency Band	MHz	698-746	746-777	698-746	698-746	698-746
Gain	dBi (Min)	8	9.5	10.5	13.5	12 +/-0.5
Polarization		Linear V/H	Linear V/H	Linear V/H	Vertical	Vertical
AZ/EL BW	Degree	60/60	42/55	45/55	90/13	120/14
ETSI		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		2:1	2:1	2:1	1.7:1	1.7:1
Max Input Power	Watt	6	6	6	20	20
Additional Features		Available with 75 OHM F-Type				
Mechanical						
Size	mm	305x305x25	450x450x30	450x450x30	1620x300x115	1550x510x145
Weight	Kg (Max)	1.2	3	3	8	8
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		MT-120018	MT-120018	MT-120018	MT-120021	MT-120021

Last Update: 01/05/2008

Environmental
 Temperature Range
 Vibration
 Mechanical Shock
 Humidity
 Water Tightness
 Salt Spray
 Solar Radiation
 Ice and Snow
 Wind Speed
 Flammability

-45 to +70 degree per IEC 68
 Random 4M3 per IEC 60721
 4M3 per IEC 60721
 95% per ETSI EN300
 Per IEC 529 IP67 (IP52 for some BTS antennas)
 500 hours per IEC 68
 1000 hours per ASTM G53
 25mm Radial
 160 Kmph Operation/220 Kmph Survival
 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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900MHz Base Station and Omnidirectional Antennas

Antenna P/N		MT-264003/NV	MT-264003/NH	MT-243004/NVH	MT-263004/NV	MT-263004/NH	MT-243005/NVH	MT-243015/NH	MT-262003/NV	MT-243003/NV	MT-243003/NH
Type		Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Omni	Omni	Omni
Electrical											
Frequency Band	MHz	902-928	902-928	902-928	902-928	902-928	902-928	902-928	902-928	902-928	902-928
Gain	dBi (Min)	13.5	13.5	13(V) / 12.5(H)	12	12.5 -/+0.5	12	10	8 -/+1.25	11 -/+0.5	11.5
Polarization		Vertical	Horizontal	Dual V+H	Vertical	Horizontal	Dual V+H	Horizontal	Vertical	Vertical	Horizontal
Port to Port Isolation	dB (Min)	-	-	35	-	-	35	-	-	-	-
AZ/EL BW	Degree	90/14	90/14.5	90/16.5	120/14	120/14.5	120(V)/110(H)/16	180/12.5	360/12	360/6	360/9.5
ETSI		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	1st Null >-20dB	1st Null >-22dB	N/A	1st Null >-20dB	1st Null >-20dB	N/A	N/A	-11	1st Null >-16dB	1st Null >-20dB
Cross Polarization Level	dB (Max)	-20	-16	-25(AZ) / -18(EL)	-20	-20	-25	-18	-20	-20	-20
Front to Back Ratio	dB (Max)	-23	-23	-24 (V) / -15 (H)	-21	-16	-24 (V) / -16 (H)	-5	N/A	N/A	N/A
VSWR 50 Ohm		1.7:1	1.7:1	1.5:1	1.5:1	1.7:1	1.5:1	1.7:1	1.7:1	1.7:1	2:1
Maximum Input Power	Watt	20	20	20	20	20	10	20	20	50	50
Additional Features		Null Filled 1.5° Down Tilt	Null Filled 1.25° Down Tilt		Null Filled 1.5° Down Tilt	Null Filled 1.25° Down Tilt				Null Filled 0-3° Down Tilt	Null Filled 0-3° Down Tilt
Mechanical											
Size	mm	1260x400x115	1252x298x55	1220x450x145	1260x400x115	1320x375x55	1220x500x145	1339x435x78.5	1318xØ44	3700xØ89.5	1940x280x55
Weight	Kg (Max)	7	7	6	7	7	6	9.5	5	11.5	20
Connector		N-Type Female	N-Type Female	2 x N-Type F	N-Type Female	N-Type Female	2 x N-Type F	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		MT-120021	MT-120021	MT-120021	MT-120021	MT-120021	MT-120021	MT-120021	Included	Included	Included

Environmental
 Temperature Range
 Vibration
 Mechanical Shock
 Humidity
 Water Tightness
 Salt Spray
 Solar Radiation
 Ice and Snow
 Wind Speed
 Flammability

-45 to +70 degree per IEC 68
 Random 4M3 per IEC 60721
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 Per IEC 529 IP67 (IP52 for some BTS antennas)
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 25mm Radial
 160 Kmph Operation/220 Kmph Survival
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900MHz Subscriber Antennas

Antenna P/N		MT-262002/N/A	MT-262001/N/A	MT-263003/N	MT-263006/N
Type		Subscriber	Subscriber	Subscriber	Subscriber
Electrical					
Frequency Band	MHz	902-928	902-928	902-928	902-928
Gain	dBi (Min)	8	9	10	12.5
Polarization		Linear V/H	Linear V/H	Linear V/H	Linear V/H
Port to Port Isolation	dB (Min)	-	-	-	-
AZ/EL BW	Degree	70/70	65/55	50/50	42/42
ETSI		N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-	-18 @ +/-90 Deg	-17	-19
Cross Polarization Level	dB (Max)	-14	-13	-25	-20
Front to Back Ratio	dB (Max)	-11	-19	-27	-24
VSWR 50 Ohm		1.7:1	1.5:1	1.5:1	1.7:1
Maximum Input Power	Watt	6	6	6	6
Additional Features				High Grade	High Grade
		Available for IAE*	Available for IAE*	Available for IAE*	Available for IAE*
Mechanical					
Size	mm	190x190x30	305x305x25	305x305x25	450x450x36
Weight	Kg (Max)	0.7	1.5	1.5	3
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		MT-120018/A	MT-120018	MT-120018	MT-120018

* - For our 0.5' and 1.0' die-cast Enclosures

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Environmental

Temperature Range
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2.4GHz Base Station and Omnidirectional Antennas

Antenna P/N	MT-344030/NV	MT-344029/NV	MT-364029/NV	MT-364034/NH	MT-364040/ND	MT-343018/NV	MT-343018/NH	MT-363010/VN	MT-363010/HN	MT-364036/NH	MT-344027/NV	MT-364028/VN
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
Electrical												
Frequency Band	GHz	2.4-2.5	2.4-2.5	2.4-2.7	2.3-2.7	2.4-2.5	2.4-2.5	2.4-2.7	2.4-2.7	2.3-2.7	2.4-2.5	2.4-2.7
Gain	dBi (Min)	14	17 ±0.5	17 ±0.5	16.5 (@ 2.4-2.5)	16	13	13 ±0.5	13	15.5 (@2.5-2.7)	17	17
Polarization		Vertical	Vertical	Vertical	Horizontal	Dual Linear ± 45°	Vertical	Horizontal	Vertical	Horizontal	Horizontal	Vertical
AZ/EL BW	Degree	60/19	60/6	60/8.5	60/7.5	65/7	90/15	90/13	90/13	90/13	90/8	90/5.5
ETSI		N/A	N/A	N/A	ETSI EN**	N/A	ETSI EN**	N/A	N/A	N/A	90/8	90/5.5
Sidelobe Level	dB (Max)	-21 @ ±90 Deg	-19 @ ±90 Deg	-30 @ ±90 Deg	ETSI EN**	-13	-25 @ +/-135 Deg	-27 @ +/-135 Deg	-30 @ +/-135 Deg	-25 @ +/-135 Deg	N/A	N/A
Cross Polarization Level	dB (Max)	-18	-20	-20	ETSI EN**	-20	-19	-20	-25	-22	-28 @ +/-135 Deg	-32 @ ±135 Deg
Front to Back Ratio	dB (Max)	-30	-30	-35	ETSI EN**	-30	-30	-30	-30	-25	ETSI EN **	-20
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1	1.7:1 (@2.5-2.7)	1.5:1	1.7:1	1.5:1	1.7:1	1.5:1	ETSI EN **	-32
Maximum Input Power	Watt	6	6	6	10	20	6	6	6	6	1.7:1	1.7:1
Additional Features		ISM Only	ISM Only	Broad Band	Broadband	Dual Linear	ISM Only	ISM Only	Broadband	Broadband	Broadband	ISM Only
Mechanical												
Size	mm	350x150x30	1050x128x28	720x390x28	925x270x58	900x120x50	500x200x30	500x200x30	508x330x30	508x330x30	925x270x53	1232x330x28
Weight	Kg (Max)	1.2	2.5	4	4	3.5	1.5	1.5	3	3	4	5.5
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	2xN-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		MT-120019	MT-120021	MT-120019	MT-120021	MT-120021	MT-120019	MT-120019	MT-120019	MT-120019	MT-120021	MT-120021

* Most Omni antennas come in 2 versions: with N Connector for direct communication to the radio or with F connector

Antenna P/N	MT-364041/ND	MT-344031/NV	MT-344036/NV			Antenna P/N	MT-341018/N/A	MT-341019/N/A	MT-342025/NV	MT-341017/N/A	MT-362017/NV	MT-342020/NV	MT-343013/N	MT-952015/N/A
Type	Base Station	Base Station	Base Station			Type	Omni	Omni	Omni	Omni	Omni	Omni	Omni	Omni
Electrical						Electrical								
Frequency Band	GHz	2.3-2.7	2.4-2.5	2.3-2.7		Frequency Band	GHz	2.4-2.5	2.4-2.5	2.4-2.5	2.4-2.5	2.4-2.5	2.4-2.5	2.4-2.5 & 5.47-5.87
Gain	dBi (Min)	17	13	16.5-17.5	15.5-16	14-15	Gain	dBi (Min)	4	5.5	7	7.25	8	9
Polarization		Dual Slant ± 45°	Vertical	Vertical		Polarization		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
AZ/EL BW	Degree	90/7	120/11	60/7	90/7	120/7	AZ/EL BW	Degree	360/45	360/32	360/25	360/21	360/8	360/11
ETSI		N/A	ETSI EN **	ETSI EN 301 525 V1.1.1. (2000-06)		ETSI		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-25	ETSI EN **	ETSI EN 301 525 V1.1.1. (2000-06)		Sidelobe Level	dB (Max)	-	-	-	-	-	-	-
Cross Polarization Level	dB (Max)	-20	ETSI EN **	ETSI EN 301 525 V1.1.1. (2000-06)		Cross Polarization Level	dB (Max)	-	-	-	-	-	-	-
Front to Back Ratio	dB (Max)	-30	ETSI EN **	ETSI EN 301 525 V1.1.1. (2000-06)		Front to Back Ratio	dB (Max)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1		VSWR 50 Ohm		1.7:1	1.7:1	1.5:1	1.5:1	1.7:1	1.5:1	1.5:1
Maximum Input Power	Watt	20	10	20		Maximum Input Power	Watt	6	6	4	6	4	6	6
Additional Features		Dual Slant	ISM Only	Broadband		Additional Features		*	*	*	*	*	*	*
Mechanical				Installer selectable beam width 60°/90°/120°		Mechanical								
Size	mm	1200 x 270 x 65	500x200x30	905x130x114	905x130x98	905x130x74	Size	mm	165xØ28	255xØ28	320xØ16	337xØ28	830xØ45	733xØ30
Weight	Kg (Max)	4.5	1.5	2.3		Weight	Kg (Max)	0.2	0.2	0.1	0.15	0.5	0.7	1
Connector		2x N-Type F	N-Type Female	N-Type Female		Connector		N-Type Male	N-Type Male	N-Type Female	N-Type Male	N-Type Female	N-Type Female	N-Type Male
Mounting Kit		MT-120021	MT-120019	MT-120021		Mounting Kit		N/A	N/A	Included	N/A	Included	Included	Included

* - Both F/M Connectors

** - ETSI EN 301 525 v1.1.1 (2000-06)

2.4GHz Subscriber Antennas

Antenna P/N		MT-362010/S	MT-364035/N	MT-955004/NV	MT-344041/N	MT-344026/N	MT-344020/N	MT-345010/N	MT-344048/ND	MT-365010/N	MT-365012/NVH	MT-345017/N
Type		Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber
Electrical		Preliminary										
Frequency Band	GHz	2.3-2.7	2.3-2.7	2.4-2.5&5.47-5.875	2.3-2.7	2.2-2.7	2.15-2.7	2.15-2.7	2.3-2.7	2.3-2.7	2.4-2.7	2.3-2.7
Gain	dBi (Min)	11.5 +/-0.5	15.5 @ 2.4-2.7	16 @ 2.4-2.5 22 @ 5.47-5.875	18 @ 2.6-2.7	15	16	17.5	17 @ 2.3-2.5 18 @ 2.5-2.7	19	19	20 @ 2.4-2.7
Polarization		Vertical	Linear V/H	Linear V/H	Linear V/H	Linear V/H	Linear V/H	Linear V/H	Dual Slant ± 45°	Linear V/H	Dual V+H	Linear V/H
Port-to-Port Isolation	dB (Min)		-			-	-	-	-18 (-25 typ)	-	30	-
AZ/EL BW	Degree	80/20	32/32	21/21 @ 2.4-2.5 9/9 @ 5.47-5.875	20/20	20/20	20/20	14/14	21/21	17/17	16/16	15/15
ETSI		N/A	TS2	N/A	TS2	TS2	N/A	ETSI EN**	DN2-DN3	TS3	ETSI EN**	ETSI EN**
Sidelobe Level	dB (Max)	-	TS2 @ 2.4-2.7	-12	TS2	TS2	-17 +/-1	-12	DN2-DN3	TS3	ETSI EN**	TS3
Cross Polarization Level	dB (Max)	-	TS2	-20	TS2	-18	-20	-26	DN2-DN3	-20	ETSI EN**	TS3
Front to Back Ratio	dB (Max)	-20	TS3	-30 @ 2.4-2.5	-28	-26	-30	-30	DN2-DN3	-26	ETSI EN**	TS3
VSWR 50 Ohm		1.5:1	1.7:1	1.5:1	1.7:1	1.7:1	1.5:1	1.5:1	1.7:1	1.8:1	2.0:1	1.6:1
Maximum Input Power	Watt	6	6	6	6	6	6	6	6	6	6	6
Additional Features		Indoor Antenna	Broadband Available for IAE*	Dual Band	Broadband Available for IAE*	Broadband	Broadband	Broadband	Dual Slant pol.	Broadband	Dual pol. Available for IAE*	Broadband
Mechanical												
Size	mm	325x92x15	190x190x30	305x305x15	305x305x25	305x305x25	371x371x40	450x450x36	305x305x15	371x371x40	370x370x40	450x450x36
Weight	Kg (Max)	0.6	0.5	1	1.2	1.5	2	3	1.2	2	2.5	3
Connector		SMA Female	N-Type Female	N-Type F	N-Type Female	N-Type Female	N-Type Female	N-Type Female	2xN-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		Stand Alone	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018

* - For our 0.5' and 1.0' die-cast Enclosures

** - ETSI EN 301-525 V 1.1.1(2000-06)

Last Update: 01/05/2008

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

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2.1-2.4/2.5-2.9GHz Base Station and Omnidirectional Antennas

Antenna P/N		MT-344014/NV	MT-344014/NH	MT-364029/NV	MT-364034/NH	MT-364040-ND	MT-363010/VN	MT-363010/HN	MT-364028/VN
Type		Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station
Electrical						Preliminary			
Frequency Band	GHz	2.15-2.162	2.15-2.162	2.4-2.7	2.3-2.7	2.3-2.7	2.4-2.7	2.4-2.7	2.4-2.7
Gain	dBi (Min)	17.5	17	17 ±0.5	16.5 @ 2.4-2.5	17	13	13	17
Polarization		Vertical	Horizontal	Vertical	Horizontal	Dual Slant ± 45°	Vertical	Horizontal	Vertical
Port-to-Port Isolation	dB (Min)	-	-	-	-	25	-	-	-
AZ/EL BW	Degree	45/8	45/9	60/8.5	60/7.5	65/7	90/13	90/13	90/5
ETSI		N/A	N/A	N/A	ETSI EN**	N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-30	-30	-30 @ ±90 Deg	ETSI EN**	-25	-30 @ -/+135 Deg	-25 @ -/+135 Deg	-30 @ -/+135 Deg
Cross Polarization Level	dB (Max)	-24	-24	-20	ETSI EN**	-20	-25	-22	-20
Front to Back Ratio	dB (Max)	-34	-36	-35	ETSI EN**	-30	-30	-25	-30
VSWR 50 Ohm		1.5:1	1.5:1	1.7:1	1.7:1 @ 2.5-2.7	1.5:1	1.7:1	1.5:1	1.7:1
Maximum Input Power	Watt	10	10	6	10	20	6	6	6
Additional Features				Broad Band	Broadband	Dual Slant	Broadband	Broadband	Broadband
							Low Gain	Low Gain	High Gain
Mechanical									
Size	mm	810x250x80	833x336x42	720x390x28	925x270x58	900x120x50	508x330x30	508x330x30	1232x330x30
Weight	Kg (Max)	5	8.2	4	4	4.5	3	3	5.5
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	2xN-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		MT-120021	MT-120021	MT-120019	MT-120021	MT-120021	MT-120019	MT-120019	MT-120021

Antenna P/N		MT-364036/NH	MT-364022/NH	MT-364041/ND	MT-344036/NV			MT-362017/NV
Type		Base Station	Base Station	Base Station	Base Station			Omni
Electrical					Preliminary			Preliminary
Frequency Band	GHz	2.3-2.7	2.5-2.7	2.3-2.7	2.3-2.7			2.3-2.7
Gain	dBi (Min)	15.5 @ 2.5-2.7	16 -/+0.5	17	16.5-17.5	15.5-16	14-15	8
Polarization		Horizontal	Horizontal	Dual Slant ± 45°	Vertical			Vertical
Port-to-Port Isolation	dB (Min)	-	-	25	-			-
AZ/EL BW	Degree	90/8	90/5	90/7	60/7	90/7	120/7	360/8
ETSI		N/A	N/A	N/A	ETSI EN 301 525 V1.1.1. (2000-06)			N/A
Sidelobe Level	dB (Max)	-28 @ -/+135 Deg	-	-25	ETSI EN 301 525 V1.1.1. (2000-06)			-9
Cross Polarization Level	dB (Max)	ETSI EN **	-20 @ -/+90	-20	ETSI EN 301 525 V1.1.1. (2000-06)			
Front to Back Ratio	dB (Max)	ETSI EN **	-26	-30	ETSI EN 301 525 V1.1.1. (2000-06)			
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1	1.7:1			1.7 :1
Maximum Input Power	Watt	20	6	20	20			4
Additional Features		Broadband		Dual Slant	Broadband			
			High Gain		60°/90°/120°			
Mechanical								
Size	mm	925x270x53	1414x234x133	1200 x 270 x 65	905x130x114	905x130x98	905x130x74	830xØ45
Weight	Kg (Max)	4	7	4.5	2.3			0.5
Connector		N-Type Female	N-Type Female	2 x N-Type F	N-Type Female			N-Type Female
Mounting Kit		MT-120021	MT-120021	MT-120021	MT-120021/A			Included

2.1-2.4/2.5-2.9GHz Subscriber Antennas

Antenna P/N		MT-362010/S	MT-364035/N	MT-344026/N	MT-344041/N	MT-344048/ND	MT-344020/N	MT-364011/SA	MT-345010/N	MT-364027/N	MT-365012/NVH	MT-345017/N
Type		Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber
Electrical												
Frequency Band	GHz	2.3-2.7	2.3-2.7	2.2-2.7	2.3-2.7	2.3-2.7	2.15-2.7	2.5-2.7	2.15-2.7	2.7-2.9	2.4-2.7	2.3-2.7
Gain	dBi (Min)	11.5 +/-0.5	15.5 @ 2.4-2.7	15 +/-0.5	18 @ 2.6-2.7	17 @ 2.3-2.5 @ 2.5-2.7 18	16	16.5	17.5	16	19±1	20 @ 2.4-2.7
Polarization		Vertical	Linear V/H	Linear V/H	Linear V/H	Dual Slant ± 45°	Linear V/H	Dual V+H	Linear V/H	Linear V/H	Dual V+H	Linear V/H
Port-to-Port Isolation	dB (Min)	-	-	-	-	-18 (-25 typ)	-	25	-	-	30	-
AZ/EL BW	Degree	80/20	32/32	20/20	20/20	21/21	20/20	20/20	14/14	19/19	16/16	15/15
ETSI		N/A	TS2	TS2	TS2	ETSI EN**	N/A	TS3	ETSI EN**	N/A	ETSI EN**	ETSI EN**
Sidelobe Level	dB (Max)	-	TS2 @ 2.4-2.7	TS2	TS2	ETSI EN**	-17 +/-1	TS3	-12	-15	ETSI EN**	TS3
Cross Polarization Level	dB (Max)	-	TS2	-18	TS2	ETSI EN**	-20	TS3	-26	-20	ETSI EN**	TS3
Front to Back Ratio	dB (Max)	-20	TS3	-26	-28	ETSI EN**	-30	-30	-30	-30	ETSI EN**	TS3
VSWR 50 Ohm		1.5:1	1.7:1	1.7:1	1.7:1	1.7:1	1.5:1	1.7:1	1.5:1	1.5:1	2.0:1	1.6:1
Maximum Input Power	Watt	6	6	6	6	6	6	6	6	6	6	6
Additional Features		Indoor Antenna	Broadband	Broadband	Broadband	Dual Slant	Broadband	Dual Pol.	Broadband		Dual pol.	Broadband
			Available for IAE*		Available for IAE*						Available for IAE*	
Mechanical												
Size	mm	325x92x15	190x190x30	305x305x25	305x305x25	305x305x15	371x371x40	340x340x30	450x450x36	305x305x25	370x370x40	450x450x36
Weight	Kg (Max)	0.6	0.5	1.5	1.2	1.2	2	1.6	3	1.5	2.5	3
Connector		SMA Female	N-Type Female	N-Type Female	N-Type Female	2x N-Type Female	N-Type Female	2 x SMA F	N-Type Female	N-Type Female	N-Type Female	N-Type Female
Mounting Kit		Stand Alone	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018

* - For our 0.5' and 1.0' die-cast Enclosures

** - ETSI EN 301-525 V 1.1.1(2000-06)

Last Update: 01/05/2008

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

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Key Features

- High-Quality Low-Cost
- Lightweight antenna with easy installation
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- Various configurations such as standalone, integrated or internal component
- Narrow and broad band
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3.5GHz Base Station and Omnidirectional Antennas

Antenna P/N		MT-30106	MT-404007	MT-404005/H	MT - 385003/NV	MT -404067/ND	MT-404014/NV	MT-404014/NH	MT-404061/NV	MT-404042/NH	MT -404066/ND	MT-404047/NH
Type		Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station
Electrical												
Frequency Band	GHz	3.4-3.7	3.3-3.8	3.3-3.8	3.3-3.5	3.3 - 3.8	3.3-3.7	3.3-3.8	3.3-3.8	3.3-3.8	3.3 - 3.8	3.3-3.8
Gain	dBi (Min)	15	17 +/-0.5 (3.4-3.7)	16.5 @ 3.4-3.7	18	17+/-0.5 (3.4-3.8)	14.5 +/-0.3	14 @ 3.4-3.8	16	16 @ 3.4-3.7	16	17 @ 3.4-3.8
Polarization		Vertical	Vertical	Horizontal	Vertical	Dual Slant ±45°	Vertical	Horizontal	Vertical	Horizontal	Dual Slant ±45°	Horizontal
Port-to-Port Isolation	dB (Min)											
AZ/EL BW	Degree	60/12	60/10	60/9	60/7	65/7.5	90/9	90/9	90/9	90/9	90/5	52/7
ETSI		N/A	CS3	CS3		SS2	CS3	CS2	CS3	CS3	SS2	CS3 Asymmetric
Sidelobe Level	dB (Max)	-25	CS3	CS3		SS2	CS3	CS2	CS3	CS3	-27 @ 135 Deg	-25 @ +/- 85 Deg
Cross Polarization Level	dB (Max)	-18	-20	CS3	-25	SS2	-22	-23	CS3	-25	SS2	-25
Front to Back Ratio	dB (Max)	-30	-43 (3.4-3.8)	-32	-25	-30	-36	-26	CS3	-28	SS2	-40
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1 @ 3.4-3.7	1.5:1	1.5 :1	1.7:1	1.7:1	2:01	1.5:1	1.7 :1	1.5:1
Maximum Input Power	Watt	6	6	6	6	50	6	6	6	6	6	6
Additional Features		Low Cost Compact & Light				Dual Slant	Cosecant Sqrd	Cosecant Sqrd	Cosecant Sqrd		Dual Slant	Cosecant Sqrd
Mechanical												
Size	mm	350x150x30	500x200x30	500x200x30	650x120x70	600 x 130 x 63	536x360x30	536x360x26	780x360x33	536x360x26	1000 x 210 x 63	720x300x30
Weight	Kg (Max)	0.7	1.5	1.5	2.5	2.5	2.3	2.3	2.8	2.3	3.2	2.5
Connector		N-Type Female	N-Type Female	N-Type Female	N type female	2 x N-Type female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	2 x N-Type female	N-Type Female
Mounting Kit		MT-120019	MT-120019	MT-120019	MT-120025	MT-120025/A	MT-120019	MT-120019	MT-120019	MT-120019	MT-120021	MT-120019

** ETSI EN 301 525 V1.1.1 (2000-06)

* Most Omni antennas come in 2 versions: with N Connector for direct communication to the radio or with F connector for cable connections

Antenna P/N		MT-404048/NV	MT-30105	MT-403019/NV	MT-403022/NV	MT - 384002/NV				
Type		Base Station	Base Station	Base Station	Base Station	Base Station				
Electrical						Preliminary				
Frequency Band	GHz	3.3-3.8	3.4-3.7	3.3-3.8	3.3-3.8	3.3 - 3.8				
Gain	dBi (Min)	17.5 @ 3.4-3.8	12	14 @ 3.3-3.7	14 @ 3.4-3.7	18	17.5	16.5	15	14
Polarization		Vertical	Vertical	Vertical	Vertical	Vertical				
Port-to-Port Isolation	dB (Min)									
AZ/EL BW	Degree	52/7	120/12	120/8	120/8	30/7	45/7	60/7	90/7	120/7
ETSI		CS3 Asymmetric	N/A	CS2	ETSI EN**	ETSI EN 302 326-3 V1.1.2. (2006-03)				
Sidelobe Level	dB (Max)	-25 @ +/- 80 Deg	-25	CS2	CS3	SS3				
Cross Polarization Level	dB (Max)	-25	-17	CS2	CS3	SS3				
Front to Back Ratio	dB (Max)	-42	-24	CS2	CS3	SS3				
VSWR 50 Ohm		1.7:1	1.7:1	1.5:1 @ 3.3-3.7	1.9:1	1.7:1				
Maximum Input Power	Watt	6	6	6	10	20				
Additional Features		Cosecant Sqrd	Low Cost			Broadband Installer selectable beam width 30°/45°/60°/90°/120°				
Mechanical										
Size	mm	720x300x15	350x150x30	500x200x30	540x270x30	540 x 300 x 100				
Weight	Kg (Max)	2.5	0.7	1.5	2	3				
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female				
Mounting Kit		MT-120019	MT-120019	MT-120019	MT-120019	MT-120019				

* - Both F/M Connectors

Antenna P/N		MT-402005/N	MT-402009/N/A	MT-403023/N	MT-403017/N
Type		Omni	Omni	Omni	Omni
Electrical					
Frequency Band	GHz	3.3-3.8	3.4-3.6	3.4-3.6	3.3-3.7
Gain	dBi (Min)	8.0 +/-1	9±1	10±1	10.5 +/-0.5
Polarization		Vertical	Vertical	Vertical	Vertical
AZ/EL BW	Degree	360/8	360/11	360/7	360/4
ETSI		N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-9 @ E-Plane	-11 @ E-Plane	-10 @ E-Plane	-9 @ E-Plane
Cross Polarization Level	dB (Max)	-8 (EL)	-20	-20	-
Front to Back Ratio	dB (Max)	-	-	-	-
VSWR 50 Ohm		1.7:1 @ 3.4-3.8	1.7:1	1.7:1	1.7:1 @ 3.4-3.8
Maximum Input Power	Watt	4	6	6	4
Additional Features			*	Electrical Tilt	
Mechanical					
Size	mm	580xØ75	465xØ16	730xØ28	1150xØ75
Weight	Kg (Max)	1.5	0.5	0.5	2.5
Connector		N-Type Female	N-Type male	N-Type Female	N-Type Female
Mounting Kit		Included	N/A	Included	Included

3.5GHz Subscriber Antennas

Antenna P/N		MT-403010/S	MT-30117/N	MT-404021/S	MT-30080/A	MT-404021/ND	MT-404033/N	MT-405001	MT-405036/N	MT - 385002/ND	MT-405006/N	MT-405037/N	MT-30093	MT-404040/NRH	MT-404040/NLH	
Type		Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	
Electrical																
Frequency Band	GHz	3.3-3.8	3.3-3.8	3.3-3.8	3.6-4.02	3.3-3.8	3.4-3.7	3.4-3.7	3.3-3.8	3.3-3.8	3.3-3.7	3.3-3.8	3.3-3.8	3.4-3.7	3.4-3.7	
Gain	dBi (Min)	12 @ 3.4-3.8	16.5 @ 3.5-3.7	17	17	17.5	18	18	18	18	19.5 -/+0.5	21 @ 3.4-3.8	24	17dBic	17dBic	
Polarization		Linear V/H	Linear V/H	Dual V+H	Linear V/H	Dual Slant ± 45°	Linear V/H	Linear V/H	Linear V/H	Dual Slant ± 45°	Linear V/H	Linear V/H	Linear V/H	RHCP	LHCP	
Port to Port Isolation	dB (Min)	-	-	25	-	25	-	-	-	23 (20 @3.7-3.8)	-	-	-	-	-	
AZ/EL BW	Degree	85/85	23/23	18/18	20/20	20/20	18/18	18/18	15/15	15/15	14/14	12/12	8/8	17/17	17/17	
ETSI		N/A	TS2	TS1-TS5	TS3	DN3	TS1-TS5	TS3	TS3 (3.4-3.8)	DN3	TS1-TS5 (3.3-3.6)	ETSI EN**TS1-TS3	TS1-TS5	TS1-TS3	TS1-TS3	
Sidelobe Level	dB (Max)	-8 (EL)	TS2	TS1-TS5	TS3	DN3	TS1-TS5	TS3	TS3	DN3	TS1-TS5 (3.3-3.6)	TS1-TS3	TS1-TS5	-12	-12	
Cross Polarization Level	dB (Max)	-	TS5	-20	TS3	DN3	TS1-TS5	TS3	TS3	DN3(DN2@3.7-3.8)	TS1-TS5 (3.3-3.6)	TS1-TS3	-25	3dB Axial Ratio	3dB Axial Ratio	
Front to Back Ratio	dB (Max)	-19	TS3	-30	-30	DN3	-30	-35	TS3	-30	TS1-TS5 (3.3-3.6)	TS1-TS3	-40	-30	-30	
VSWR 50 Ohm		2:1	1.7:1	2:1	1.7:1	1.5:1	1.7:1	1.7:1	1.7:1	2.0:1	1.7:1	1.7:1	2:1	1.5:1	1.5:1	
Maximum Input Power	Watt	6	6	6	6	6	6	10	6	6	6	6	6	10	10	
Additional Features		Indoor Antenna	Available for IAE*	Dual Pol.		Dual Slant		Diamond Shape	Available for IAE*	Dual Slant	Diamond Shape	Available for IAE*	High Gain	Circular Pol. RH	Circular Pol. LH	
Mechanical																
Size	mm	325x92x15	190x190x30.5	305x305x25	305x305x25	305 x 305 x 25	261x261x30	286x286x25	305x305x25	305 x 305 x 15	371x371x40	450x450x36	600x600x52	305x305x25	305x305x25	
Weight	Kg (Max)	0.6	0.4	1.5	1.5	1.2	1.2	1	1.2	1.2	2	3	5	1.2	1.2	
Connector		SMA Female	N-Type Female	2 x SMA Female	N-Type Female	2 x N-Type Female	N-Type Female	Right Angle SMA	N-Type Female	2 x N type female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	
Mounting Kit		Stand Alone	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	

* - For our 0.5' and 1.0' die-cast Enclosures

** - ETSI EN 302 085 V1.2.2 (2003-08)

Last Update: 01/05/2008

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

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4.4/4.9GHz Base Station and Omnidirectional Antennas

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Antenna P/N	MT-444007/NV	MT-464002/NV	MT-464002/NH	MT-484032/NV	MT-464003/NH	MT-444003/NV	MT-464004/NH	MT-462006/N/A	MT-462007/N/A	MT-443007/NV	MT-462008/N	MT-462008/N/A	MT-463007/NV/A	MT-463008/NV/A	
Type	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Omni	Omni	Omni	Omni	Omni	Omni	Omni	
Electrical	Preliminary														
Frequency Band	GHz	4.4-5GHz	4.9-5.35	4.9-5.1	4.9-5.875	4.9-5.1	4.9-5.35	4.9-5.1	4.9-5.1	4.9-5.875	4.4-5GHz	4.9-5.875	4.9-5.875	4.9 – 5.15	4.9 – 5.15
Gain	dBi (Min)	14	16	15.5	17 (16.5@4.9G)	15	15	14	8.5	8.5±1	9.5	9.5±1	10±1	10.5 ± 0.5	10.5 ± 0.5
Polarization		Vertical	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Port to Port Isolation	dB (Min)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AZ/EL BW	Degree	60/16	60/4	60/10	90/5.5	90/7	120/6	120/6	360/8.5	360/15	360/5	360/7	360/8	360/7	360/7
ETSI		-	CS3	CS3	CS3	CS3	CS3	CS3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sidelobe Level	dB (Max)	-20	-25@-/+90 Deg	-25@+90 Deg	-30@-/+135Deg	-25@-/+135Deg	CS3	CS3	10 EL Plane	10 EL Plane		10 EL Plane	10 EL Plane	10 EL Plane	10 EL Plane
Cross Polarization Level	dB (Max)	-	-28	-28 AZ/-20 EL	-20	-20	CS3	-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front to Back Ratio	dB (Max)	-30	-35	-35	-35	-30	CS3	-32	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VSWR 50 Ohm		1.5:1	1.7:1	1.7:1	1.7:1 (typical)	1.7:1	1.7:1	1.7:1	1.7:1	2.0:1	2.1:1	2.0:1	2.0:1	1.7:1	1.7:1
Maximum Input Power	Watt	10	6	6	6	6	6	6	6	6	10	6	6	6	6
Additional Features									*	*			*	*	Electrical Tilt -2°
Mechanical															
Size	mm	350x150x30	350x150x30	350x150x30	550 x 250 x 18	530x260x27	550x250x17	550x200x60	465xØ16	330xØ28	610xØ28	464XØ28	450xØ28	500xØ28	500xØ28
Weight	Kg (Max)	1.5	1.5	1.5	1.8	2.5	1.8	2	0.5	0.5	0.75	0.7	0.7	0.5	0.5
Connector		N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	N-Type Male	N-Type Male	N-Type Female	N-Type Female	N-Type Male	N – Type male	N-Type Male
Mounting Kit		MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	N/A	N/A	Included	Included	N/A	N/A	N/A

* - Both F/M Connectors

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)
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4.4/4.9GHz Subscriber Antennas

Antenna P/N Type		MT-483010/S Subscriber	MT-464005/N Subscriber	MT-465005/N Subscriber	MT-445005/N Subscriber	MT - 465009N Subscriber	MT-445003/NVH Subscriber	MT-466004/N Subscriber	MT-466003/N Subscriber	MT-446002/N Subscriber	MT - 446003/N Subscriber
Electrical											
Frequency Band	GHz	4.9-5.875	4.9-5.1	4.9-5.35	4.4-5.1	4.9 – 6	4.4-5.1	4.9-5.1	4.9-5.1	4.4-5.1	Preliminary 4.9 – 5.875
Gain	dBi (Min)	13	18	21	21.5	21 @ 4.9–5.15 22.5@5.47–6	20.7H/22.8V	25	27	27±0.5	27 @ 4.9–5.15 28 @ 5.15–5.875
Polarization		Vertical	Linear V/H	Linear V/H	Linear V/H	Linear V/H	Dual V+H	Linear V/H	Linear V/H	Linear V/H	Linear V/H
Port to Port Isolation	dB (Min)		-	-	-	-	35	-	-	-	-
AZ/EL BW	Degree	60/18	20/17	9/9	13/13	9/9	10/10	6/6	5/5	6/6	4.5/4.5
ETSI		N/A	-	TS3	ETSI EN**	DN3	TS1-TS3	TS1-TS5	TS1-TS5	TS1-TS5	TS1-TS5
Sidelobe Level	dB (Max)	-10	-	TS3	DN3	DN3	TS1-TS3	TS1-TS5	TS1-TS5	TS1-TS5	TS1-TS5
Cross Polarization Level	dB (Max)	-	-20(AZ)/-12(EL)	-28	DN3	DN3	TS1-TS3	-20	TS1-TS5	TS1-TS5	TS1-TS5
Front to Back Ratio	dB (Max)	-20	-35	-30	-40	-35	-35	-30	-40	-40	-40
VSWR 50 Ohm		1.5:1	1.8:1	1.7:1	1.7:1	1.7 : 1	2:1	1.7:1	1.7:1	1.5:1	1.7 : 1
Maximum Input Power	Watt	6	6	6	10	6	6	6	6	10	6
Additional Features		Indoor Antenna		Available for IAE*			Available for IAE*	Available for IAE*			
Mechanical											
Size	mm	325x92x15	190X190X30.5	305x305x15	305x305x14	305 x 305 x 15	370x370x40	450x450x30	600x600x51	600x600x51	600 x 600 x 51
Weight	Kg (Max)	0.6	0.7	1.2	1.2	1.2	2.5	3	5	5	5
Connector		SMA Female	N-Type F	N-Type F	N-Type F	N-Type F	2 x N-Type F	N-Type F	N-Type F	N-Type F	N-Type F
Mounting Kit		Stand Alone	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120019	MT-120019	MT-120019

* - For our 0.5' and 1.0' die-cast Enclosures

Last Update: 01/05/2008

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 (excluding MT-465005/N)

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 Type		MT-484033/NVA Base Station	MT-484033/NH Base Station	MT-484032/NV Base Station	MT-484032/NH Base Station	MT-484034/NV Base Station	MT-484034/NH Base Station	MT-484037/NV Base Station	MT-484026/NV Base Station	MT-484026/NH Base Station	MT-484026/NVH Base Station	MT-484027/NV Base Station	MT-484027/NH Base Station	MT-484027/NVH Base Station
Electrical														
Frequency Band	GHz	4.9-5.875	5.15-5.875	4.9-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.725-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875
Gain	dBi (Min)	16.5 +/-0.5	16.5	17 (16.5@4.9G)	16.5	15	15	15	16	15	V-16/H-15	14	14	14
Polarization		Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Vertical	Horizontal	Dual V+H	Vertical	Horizontal	Dual V+H
Port to Port Isolation	dB (Min)	-	-	-	-	-	-	-	-	-	35	-	-	50
AZ/EL BW	Degree	60/11	60/11	90/5.5	90/6	120/6	120/6	120/6.5	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)	CS1-CS3**	CS1-CS3**	CS1-CS3**	CS1-CS3**	CS3	CS3	-	-30@-/+90 Deg	-30@-/+90 Deg	-30@-/+90 Deg	-30@-/+135Deg	-28@-/+135Deg	-30@-/+135Deg
Cross Polarization Level	dB (Max)	-28	-23	-20	-20 (CS2)	CS3	CS3	CS3	-24	-24	-25	Az: -25 El: -15	Az: -25 El: -15	Az: -25 El: -15
Front to Back Ratio	dB (Max)	-35	-30	-35	-30	CS3	-32	-30	-30	-30	-30	-30	-30	-35
VSWR 50 Ohm		1.7:1	1.7:1	1.7:1 (typical)	1.7:1	1.7:1 (typical)	1.7:1	1.5:1	1.5:1	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	Special for UK	High Grade	High Grade	High Grade	High Grade	High Grade	High Grade
				Available for IAE*				1st Null >-15dB	1st Null >-15dB	1st Null >-15dB	1st Null >-15dB	1st Null >-15dB	3rd Null >-16dB	3rd Null >-16dB
Mechanical														
Size	mm	350x150x30	350x150x30	550 x 250 x 18	530x260x27	550x250x17	550x200x75	500x200x30	436x250x10	436x250x10	436x250x10	436x250x10	436x250x10	860x272x10
Weight	Kg (Max)	1.5	1.5	1.8	2.5	1.5	2	1.5	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-120025	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120019	MT-120021

* - For our 0.5' and 1.0' die-cast Enclosures

** - ETSI EN 302 085 V1.1.2(2001-02)

*Most Omni antennas come in 2 versions:with N Connector for direct communication to the radio or with F connector for cable connections

Antenna P/N Type		MT-481003/NV Omni	MT-462007/N/A Omni	MT-482003/N Omni	MT-482016/N/A Omni	MT-462008/N/A Omni	MT-482015/N/A Omni	MT-483003/N Omni	MT-484030/N Omni	MT-952015/N/A Omni
Electrical										
Frequency Band	GHz	5.15-5.875	4.9-5.875	5.15-5.875	5.47-5.875	4.9-5.875	5.725-5.925	5.725-5.875	5.725-5.875	Integrated
Gain	dBi (Min)	5.5 ±0.5	8.5±1	8	8.5±0.6	10±1	10.5	12	15	2.4-2.5&5.47-5.875
Polarization		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	5dBi @ 2.4-2.5
Port to Port Isolation	dB (Min)	-	-	-	-	-	-	-	-	6.5dBi @ 5.47-5.875
AZ/EL BW	Degree	360/22	360/15	360/4.5	360/10	360/8	360/6.5	360/4.8	360/2.6	360/25 @ 2.4-2.5
ETSI		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	360/13 @ 5.47-5.875
Sidelobe Level	dB (Max)		10 EL Plane	-10 EL Plane	-10 EL Plane	10 EL Plane	-10 EL Plane	-12 EL Plane	-10 EL Plane	-10 EL Plane
Cross Polarization Level	dB (Max)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-
Front to Back Ratio	dB (Max)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VSWR 50 Ohm		1.7:1	2.0:1	1.7:1	1.7:1	2.0:1	1.7:1	1.7:1	1.7:1	2:1
Maximum Input Power	Watt	6	6	4	4	6	6	6	6	6
Additional Features			Electrical tilt	*		Electrical tilt*	*	Electrical tilt*	Electrical tilt	Dual Band
Mechanical										
Size	mm	191xØ16	330xØ28	700xØ60	337xØ16	450xØ28	460xØ16	680xØ50	1280xØ75	260xØ28
Weight	Kg (Max)	0.1	0.5	1.5	0.5	0.7	0.5	0.7	1.5	0.2
Connector		N-Type Female	N-Type Male	N-Type Female	N-Type Male	N-Type Male	N-Type Male	N-Type F	N-Type F	N-Type Male
Mounting Kit		Included	N/A	Included	N/A	N/A	N/A	Included	Included	Included

* - Both F/M Connectors

Last Update: 01/05/2008

5.3/5.8GHz and 6-6.4GHz Subscriber Antennas

Antenna P/N		MT-483010/S	MT-485005/VHN	MT-485001	MT-955004/NV	MT - 465009N	MT-485028/N	MT-465008/N	MT-485034/N	MT-485002	MT-485025/NVH	MT-486004/N	MT - 446003/N	MT-486001	MT-486009/N	MT-487000/N
Type		Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber	Subscriber
Electrical					Preliminary	Preliminary							Preliminary			
Frequency Band	GHz	4.9-5.875	5.25-5.875	5.15-5.875	2.4-2.5&5.47-5.875	4.9 - 6	5.15-5.875	6-6.4	5.15-5.875	5.15-5.875	5.15-5.875	5.15-5.875	4.9 - 5.875	5.15-5.875	5.15-6	5.15-6
Gain	dBi (Min)	13	18	18	16@2.4-2.5 22@5.47-5.875	21 @ 4.9-5.15 22.5@5.47-6	22	22.5	23(5.47-5.725)	23	23	26	27 @ 4.9-5.15 28 @ 5.15-5.875	28	28	29
Polarization		Vertical	Dual V+H	Linear V/H	Vertical	Linear 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	Linear V/H	Linear V/H
Port to Port Isolation	dB (Min)		30	-		-	-	-	-	-	40	-	-	-	-	-
AZ/EL BW	Degree	75/18	17/17	18/18	2.4-2.5: 21/21 5.47-5.875: 9/9	9/9	9/9	9/9	11/12	9/9	9/9	6/6	4.5/4.5	4.5/4.5	4.5/4.5	3.5/5
ETSI		N/A	TS3	ETSI EN**	N/A	DN3	TS3	TS3	ETSI EN**	-	TS3	TS3	TS1-TS5	TS1-TS5	TS1-TS5	TS1-TS5
Sidelobe Level	dB (Max)	-12	-12	TS3	-12	DN3	TS3	TS3	ETSI EN**	TS5	TS3	TS3	TS1-TS5	TS1-TS5	TS1-TS5	Az: 10, El: 16
Cross Polarization Level	dB (Max)	-	-20	TS3	-20	DN3	-28	ETSI EN**	TS5	-28	TS3	-20	TS1-TS5	-28	TS1-TS5	Az: -27, El: -22
Front to Back Ratio	dB (Max)	-20	-30	-30	-35 (@5.47-5.874)	-35	-35	ETSI EN**	-35	-32	-35	-30	-40	-40	-40	-40
VSWR 50 Ohm		1.5:1	1.7:1	1.9:1	1.5:1	1.7 : 1	1.7:1	1.5:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7 : 1	1.7:1	1.7:1	1.9:1
Maximum Input Power	Watt	6	6	6	6	6	6	6	10	6	6	6	6	6	6	10
Additional Features		Indoor Antenna	Dual Pol.		Dual Band	Low Cost			Diamond shape	High Grade	Dual Pol.					Low Cost
				Available for IAE*			Available for IAE*	Available for IAE*	Available for IAE*	Available for IAE*	Available for IAE*	Available for IAE*	Available for IAE*			Grid Antenna**
Mechanical																
Size	mm	325x92x15	190x190x30	190x190x30	305x305x15	305 x 305 x 15	305x305x15	305x305x15	305x305x15	305x305x25	370x370x40	450x450x30	600 x 600 x 51	600x600x50	600x600x50	900x700x300
Weight	Kg (Max)	0.6	0.7	0.7	1	1.2	1.5	1.5	1.2	1.5	2.5	3	5	5	5	3.3
Connector		SMA Female	2 x N-Type F	N-Type F	N-Type F	N-Type F	N-Type F	N-Type F	N-Type F	N-Type F	2 x N-Type F	N-Type F	N-Type F	N-Type F	N-Type F	N-Type F
Mounting Kit		Stand Alone	MT-120018/A	MT-120018/A	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120018	MT-120019	MT-120019	Included

* - For our 0.5' and 1.0' die-cast Enclosures
 ** - ETSI EN 32 085 V1.2.2 (2003-08)
 *** - For MT-487000/N-see our website

Last Update: 01/05/2008

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 (excluding MT-485028/N)

Notes

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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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10.5GHz Antennas

Antenna P/N		MT-30021/B	MT-9010	MT-565002/NV	MT-565002/NH	MT-30042/N	MT-564004/NH	MT-9001/A	MT-9002/A
Type		Subscriber	Subscriber	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station
Electrical									
Frequency Band	GHz	10.15-10.65	10.15-10.65	10.15-10.65	10.15-10.65	10.15-10.65	10.15-10.65	10.15-10.65	10.15-10.65
Gain	dBi (Min)	25	25	17	17	16	15	10	10
Gain Flatness	dB	-	-	-	-	-	3	5 @ 90 deg	7 @ 90 deg
Polarization		Linear V/H	Linear V/H	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal
AZ/EL BW	Degree	8/8	8/8	62/6	60/8	90/4.5	90/6	90/7	90/8
ETSI		TS3	TS3	CS3	CS3	CS3	CS3	CS3	CS3
Sidelobe Level	dB (Max)	TS3	TS3	-15	CS3	CS3	CS3	CS3	CS3
Cross Polarization Level	dB (Max)	-28	-28	-25	CS3	CS3	CS3	-23	-23
Front to Back Ratio	dB (Max)	-40	-36	-44	-40	CS3	-30	-34	-34
VSWR 50 Ohm		1.7:1	2:1	1.7:1	1.5:1	1.7:1	1.7:1	2:1	2:1
Maximum Input Power	Watt	6	6	6	6	6	6	6	6
Additional Features		Low Cost	Diamond Shape			High Grade		Low Cost	Low Cost
Mechanical									
Size	mm	261x261x13.5	254x254x25	300x200x6	200x200x6	360x265x20	240x200x15	254x254x25	254x254x25
Weight	Kg (Max)	1	1.6	1	0.7	1.2	1	1.5	1.5
Connector		SMA Female	SMA Female	N-Type Female	N-Type Female	N-Type Female	N-Type Female	SMA Female	SMA Female
Mounting Kit		MT-120018	MT-120018/A	MT-120018/A	MT-120018/A	MT-120019	MT-120018/A	MT-120019	MT-120019

Last Update: 01/05/2008

Environmental
 Temperature Range
 Vibration
 Mechanical Shock
 Humidity
 Water Tightness
 Salt Spray
 Solar Radiation
 Ice and Snow
 Wind Speed

-45 to +70 degree per IEC 68
 Random 4M3 per IEC 60721
 4M3 per IEC 60721
 95% per ETSI EN300
 Per IEC 529 IP67 (IP52 for some BTS antennas)
 500 hours per IEC 68
 1000 hours per ASTM G53
 25mm Radial
 160 Kmph Operation/220 Kmph Survival

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

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- Provides High performance Low Cost subscriber
- Reduces the cost of installation
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Notes

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Mounting Kits

Mounting Kit P/N		MT-120018/A	MT-120018	MT-120019	MT-120021 (or /A)	MT-120025
Mechanical						
Pole Mount	Yes/No	Yes	Yes	Yes	Yes	Yes
Wall Mount	Yes/No	Yes	Yes	No	Yes	No
Pole Size	Inch	1.75-3	1.75-3	2.75-3.5	2.5-4.5	2.75-3.5
Azimuth Control	Degree	0-360	0-360	0-360	0-360 (on pole)	0-360
Elevation Control	Degree	See Spec	See Spec	0 to -10	0 to -10	0 to -10
Weight	Kg (max)	0.9	0.9	2.2	1.5	1.5
Front Thrust	Kg (max)	56	15	104	138	104
Side Thrust	Kg (max)	6	6	9	27	9
Additional Features		Professional	Professional	For 2' CPE or	Low Cost	For Mid Size
		For 0.5-0.75' CPE	For 1.0-1.5' CPE	Mid Size BTS	For Large BTS	BTS

Last Update: 01/05/2008

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

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Key Features

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