

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

Antenna P/N		GW-344014/NV	GW-344014/ NH	GW-364029 / NV	GW-364034/NH	GW-364040-ND	GW-363010/VN	GW-363010/ HN	GW-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		GW-120021	GW-120021	GW-120019	GW-120021	GW-120021	GW-120019	GW-120019	GW-120021

Antenna P/N		GW-364036/NH	GW-364022 /NH	GW-364041 /ND	GW-344036/NV			GW-362017/N V
Type		Base Station	Base Station	Base Station	Base Station			Omni
Electrical					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	-	- 2 5	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		GW-120021	GW-120021	GW-120021	GW-120021/A			Included

2.1-2.4/2.5-2.9GHz Subscriber Antennas

Antenna P/N		GW-362010/S	GW-364035/ N	GW-344026/ N	GW-344041/ N	GW-344048/ ND	GW-344020/ N	GW-364011/SA	GW-345010/N	GW-364027/ N	GW-365012/NVH	GW-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	2.5-2.7	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 18 @ 2.5-2.7	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	14/4	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	371x37x40	340x340x30	450x50x36	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	GW-120018/A	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW120018

* - 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

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

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

Benefits

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