

## 900MHz Base Station and Omnidirectional Antennas

Antenna P/N		GW-264003/NV	GW-264003/NH	GW-243004/NVH	GW-263004/NV	GW-263004/NH	GW-243005/NVH	GW-243015/NH	GW-262003NV	GW-243003/NV	GW-243003/NH
Type		Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Base Station	Omni	Omni	Omni
<b>Electrical</b>											
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		<b>Vertical</b>	<b>Horizontal</b>	<b>Dual V+H</b>	<b>Vertical</b>	<b>Horizontal</b>	<b>Dual V+H</b>	<b>Horizontal</b>	<b>Vertical</b>	<b>Vertical</b>	<b>Horizontal</b>
Port to Port Isolation	dB (Min)	-	-	35	-	-	35	-	-	-	-
AZ/EL BW	Degree	<b>90/14</b>	<b>90/14.5</b>	<b>90/16.5</b>	<b>120/14</b>	<b>120/14.5</b>	<b>120(V)/110(H)/16</b>	<b>180/12.5</b>	<b>360/12</b>	<b>360/6</b>	<b>360/9.5</b>
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	Null Filled		Null Filled	Null Filled				Null Filled	
		1.5° Down Tilt	1.25° Down Tilt		1.5° Down Tilt	1.25° Down Tilt			0-3° Down Tilt	0-3° Down Tilt	
<b>Mechanical</b>											
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 Femal	N-Type Female	N-Type Female
Mounting Kit		GW-120021	GW-120021	GW-120021	GW-120021	GW-120021	GW-120021	GW-120021	Included	Included	Included

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



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# 900MHz Subscriber Antennas

**FBWA**

Antenna P/N		GW-262002/N/A	GW-262001/N/A	GW-263003/N	GW-263006/N
Type		Subscriber	Subscriber	Subscriber	Subscriber
<b>Electrical</b>					
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		Available for IAE*	Available for IAE*	High Grade Available for IAE*	High Grade Available for IAE*
<b>Mechanical</b>					
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		GW-120018/A	GW-120018	GW-120018	GW-120018

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

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