Your wireless connectivity solution

FBWA

5.3/5.8GHz Base Station Antennas and Omnidirectional Antennas

Antenna P/N		GW-484033/NVA	GW-484033NH	GW-484032/NV	GW-484032/NH	GW-484034/NV	GW-484034/NH	GW-484037/NV	GW-484026/NV	GW-484026/N	GW-484026/NVH	GW-484027/NV	GW-484027/ NH	GW-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														
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)	-	-	-	-	- -	-	-	-	5	-	-	5	
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	-24	-25	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	.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	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		GW-120025	GW-120019	GW-120019	GW-120019	GW-120019	GW-12001	GW-120019	GW-120019	GW-120019	GW-120019	GW-120019	GW-120019	GW-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		GW-481003/NV	GW-462007 /N/A	GW-482003/N	GW-482016/ N/A	GW-462008/N/A	GW-482015 /N/A	GW-483003/N	GW-484030/N	GW-952015 / N/A
Type		Omni	Omni	Omni	Omni	Omni	Omni	Omni	Omni	Omni
Electrical						Preliminary				Integrated
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	2.4-2.5&5.47-5.875
Gain	dBi (Min)	**5.5** ±0.5	**8.5**±1	**8**	**8.5**±0.6	**10**±1	**10.5**	**12**	**15**	**5**dBi @ 2.4-2.5 **6.5**dBi @ 5.47-5.875
Polarization		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Port to Port Isolation	dB (Min)	-	-	-	-	-	-	-	-	-
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 @ 2.4-2.5 360/13 @ 5.47-5.875
ETSI		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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										Dual Band
		Electrical tilt	*		Electrical tilt*	*	Electrical tilt*	Electrical tilt		
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	N/A	N/A	N/A

* - Both F/M Connectors

Last Update: 01/05/2008

Your wireless connectivity solution

FBWA

5.3/5.8GHz and 6-6.4GHz Subscriber Antennas

Antenna P/N		GW-483010/ S	GW-485005/VHN	GW-485001	GW-955004/ NV	GW – 465009N	GW-485028/N	GW-465008/N	GW-485034/N	GW-485002	GW-485025/NVH	GW-486004/N	GW – 446003/N	GW-486001	GW-486009/N	GW-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	ETSI EN**	-	TS3	TS3	TS1-TS5	TS1-TS5	TS1-TS5	TS1-TS5	N/A
Sidelobe Level	dB (Max)	-12	-12	TS3	-12	DN3	TS3	ETSI EN**	TS5	TS3	TS3	TS1-TS5	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*				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	GW-120018/A	GW-120018/A	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120018	GW-120019	GW-120019	GW-120019	Included

*- For our 0.5' and 1.0' die-cast Enclosures *** - For GW-487000/N-see our website
** - ETSI EN 32 085 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 (excluding MT-485028/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

- 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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