2025 BASE STATION ANTENNAS

KBT CATALOG

Version V1.1 / 01.2025

KBT®
Professional Antenna Manufacturer
1985~2025

CONTENT

Introduction

With the densification of the cellular networks and the addition of 5G, base stations antennas are designed for various applications and come up with different characteristics, such as:

- High performance
- Compact size
- Low weigh
- Sustainability
- Low visual impact
- Low wind load
- Cost effective
- Add Active 5G
- Site sharing

Thus, KBT Antenna Solutions has developed several families of antennas in order to address the challenges faced by the Mobile Network Operators. Being close to our customers is part of our DNA.
As a premium supplier, KBT has always paid maximum attention to RF performance, while making the best trade-off for mechanics, low visual impact and any contributor to the ease of installation. Since the application can be different, for instance from compact size to site sharing antennas, choosing the right antenna family is of utmost importance.

Optimize…everything

Our broad portfolio of base station antennas supports network technologies from 2G to 5G as well as 8T8R technologies. We offer:

- Multiband antennas that provide the ultimate in space efficiency and flexibility.
- Single-band antennas that make it easy to add a new frequency or technology to a site.
- Standalone TDD and hybrid TDD/FDD antennas that make it easy to add a TDD layer to support 5G and TDD LTE.
- Tailored beamwidth antennas for the most unique coverage requirements and applications.

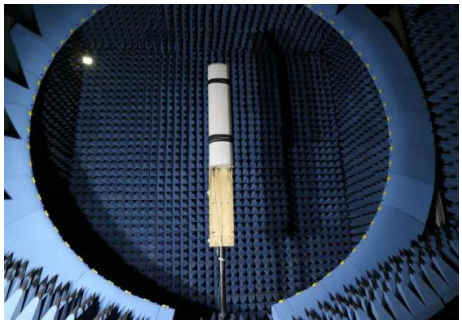
Multi Band Antennas

With our multiband base station antennas, you can support multiple frequencies and multiple technologies in a single, compact antenna that reduces space requirements, site complexity, wind loading, and total cost of ownership. You have complete flexibility to combine 2G, 3G, 4G and 5G frequencies as needed in antennas that provide up to 16 RF ports. With this future-ready approach, you can meet today's requirements and ensure you're ready to support new frequencies when they're available without the time, cost, space and effort required to add antennas.

Single-Band Antennas

With our single-band base station antennas, it's easy to introduce a new frequency or technology to a site. You don't have to replace existing antennas and you're not forced to combine technologies in cases where it doesn't make sense from a strategic, business or technical perspective. You can deploy a frequency and technology-specific antenna with up to 8 ports that meets your exact requirements. At the same time, you can leverage our antennas' excellent performance characteristics to ensure high quality communications.

Testing facilities



Antenna Pattern

Antenna Pattern

Rain

Climatic

Climatic

ROSH 2.0

Salt Spray

UV Test

ROSH 1.0

Transport Vibration Test

Vibration

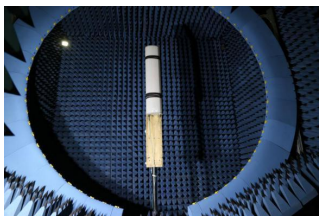
Free Fall

Production – for 100% of our antennas

VSWR & Isolation

Quality monitoring in production

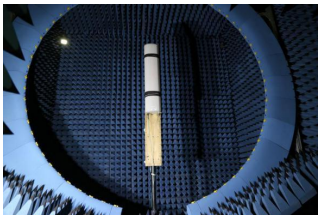
In order to make sure all products follow our specifications, we do sampling inspections on some products based on this process:



Pattern

Vibration

Climatic



Pattern

Antenna Color Coding

AISG Frequency Color

Upper Band Edge Range	RAL Code of the Colour	Band Colour	Band Character
380 MHz - 1000 MHz	RAL 3020	Red	R
1001 MHz - 1700 MHz	RAL 6029	Green	G
1701 MHz - 2300 MHz	RAL 5015	Blue	B
2301 MHz - 3000 MHz	RAL 1023	Yellow	Y
3001 MHz - 5000 MHz	RAL 4006	Purple	P
5001 MHz - 6000 MHz	RAL 2009	Orange	O

Antenna Array Configuration

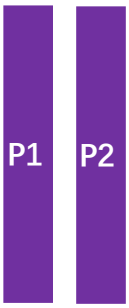
Single Band

KB65D0709A2-16-I
KB65D0709B2-17-I
KB65D0709A2-18-I
KB90D0709A2-15-I
KBT90DP17-0709AE-I
KB25D0709A2-22-I
2-ports

KB65D1727A8-18F-I-W
8-ports

KB65D1727A2-18-I
KB90D1727A2-18-I
2-ports

KB65D1727C4-18D-I
4-ports



KB65D3338A4-17D-I
4-ports

Multi Band 1LnM Platform

KB65D0727A4-1617-I
4-ports

KB65D0727A6-1518D-I
KB65D0727A6-1618D-I
6-ports

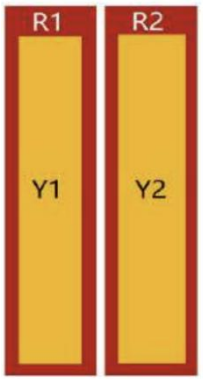
KBT65DP17181818-0727CE-I

8-ports

KB65D0727A10-1616F-I

10-ports

Multi Band 2LnM Platform

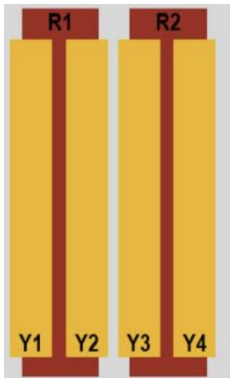


KB65D0727A8-15D18D-I-W

KB65D0727A8-17D18D-I-W

KB65D0727Z8-17D18D-I-W

8-ports



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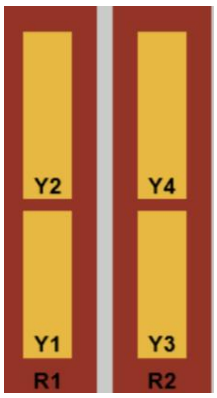
KB65D0727A12-17D18F-I-W

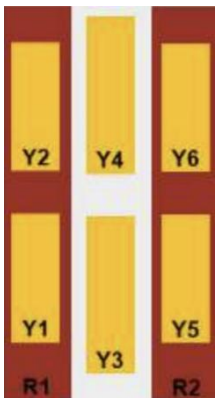
KB65D0727B12-17D18F-I-W

12-ports



KB65D0727C12-17D18F-I-W

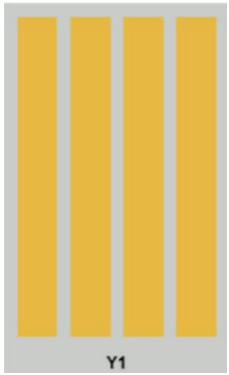
12-ports



KB65D0727A16-17D18S-I-W

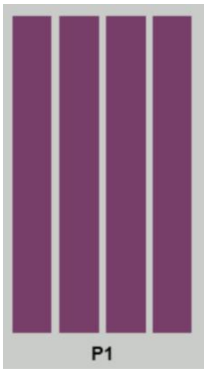
16-ports

8T8R Platform



KS90D2327A8-18F-I-W

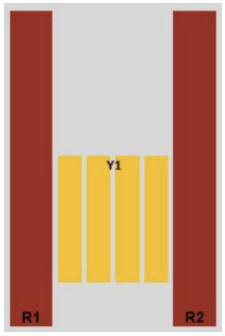
8-ports



KS65D3338A8-16F-I-W

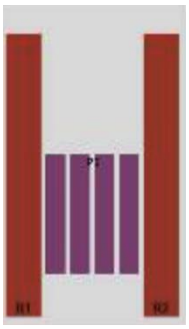
8-ports

FDD/TDD Platform



KB65D90D0727A12-17D16F-I-W

12-ports (4+8)
Connectors N

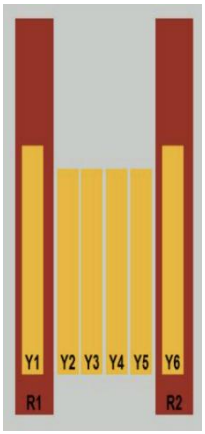


KB65D75D0742A12-15D16F-I-W
KB65D75D0742A12-16D16F-I-W

12-ports (4+8)
Connectors MQ4/MQ5

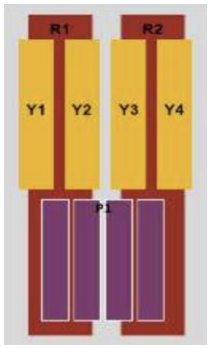
KM65D1735A12-16D16F-I

12-ports (4+8)
Connectors MQ4/MQ5



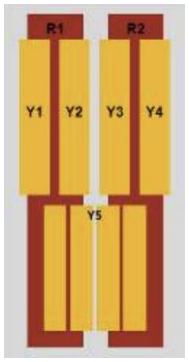
KB65D90D0727A16-16D18D16F-I-W

16-ports (8+8)
Connectors MQ4/MQ5



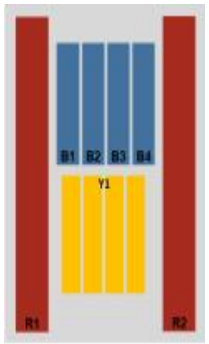
KS65D70D0738A20-17D19F15F-I-W
KB65D90D0738A20-17D19F15F-I-W

20-ports (12+8)
Connectors MQ4/MQ5



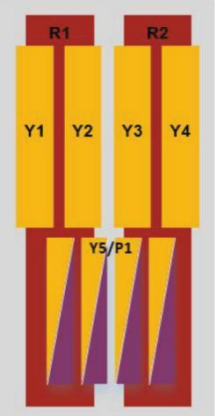
KB65D90D0727A20-17D19F14F-I-W

20-ports (12+8)
Connectors MQ4/MQ5



KB65D90D0727A20-15D15F16F-I-W

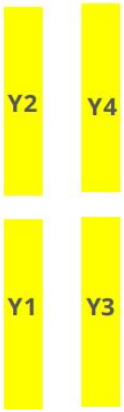
20-ports (4+8+8)
Connectors MQ4/MQ5



KB65D90D75D0738A28-17D19F15F17F-I-W

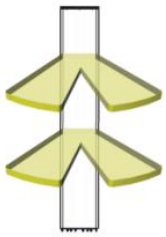
28-ports (12+8+8)
Connectors MQ4/MQ5

Dual Beam



KB30D1727A8-19F-IJ
KB30D1720A8-18F-IJ

8-ports



Single Band Antenna

Low Band

2 Ports (1L)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0709A2-16-I	698-960	65	16	2-12	2*4.3-10	1	1980*320*140	16.5
KB65D0709B2-17-I	698-960	65	16.5	0-10	2*4.3-10	1	2080*320*140	14.5
KB65D0709A2-18-I	698-960	65	17.2	0-10	2*4.3-10	1	2450*320*140	18.5
KB90D0709A2-15-I	698-960	88	14.5	0-12	2*4.3-10	1	1700*270*140	13.0
KBT90DP17-0709AE-I	698-960	88	16.4	2-12	2*4.3-10	1	2200*270*137	16.5
KB25D0709A2-22-I	698-960	25	22.2	0-10	2*4.3-10	1	2080*680*190	36.0

Mid Band | High Band

2 Ports (1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D1727A2-18-I	1695-2690	65	17.8	0-10	2*7/16DIN	1	1290*160*81	5.8
KB90D1727A2-18-I	1710-2690	85	17.5	2-12	2*N Female	1	1550*160*81	6.4

4 Ports (2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D1727C4-18D-I	1710-2690	65	18	2-12	4*4.3-10	2	1365*320*140	14.0

8 Ports (4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D1727A8-18F-I-W	1710-2690	65	18	2-12	8*4.3-10	4	1410*480*175	21.5

4 Ports (2H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D3338A4-17D-I	3300-3800	65	17.3	0-10	4*N Female	2	900*280*125	5.9

Multi Band Antenna 1LnM

4Ports (1L1M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A4-1617-I	698-960 1710-2690	65	16 17.5	2-12	4*4.3-10	2	1980*320*140	17.6

6Ports (1L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A6-1518D-I	698-960 1710-2690	65	15 17.4	2-14 2-12	6*4.3-10	3	1490*396*190	18.6
KB65D0727A6-1618D-I	698-960 1710-2690	65	16 17.5	2-12	6*4.3-10	3	1900*396*190	21.0

8Ports (1L3M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KBT65DP17181818-0727CE-I	698-960 1710-2690	65	16 17.4	0-10	8*4.3-10	4	2200*385*138	23.5

10Ports (1L4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A10-1616F-I	698-960 1710-2690	65	15.6 15.6	2-12	10*4.3-10	5	1990*396*190	26.4

Multi Band Antenna 2LnM

8 Ports (2L2M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A8-15D18D-I-W	690-960 1690-2690	65	14.8 18.3	2-12	8*4.3-10	4	1497*467*167	18.0
KB65D0727A8-17D18D-I-W	690-960 1690-2690	65	16.4 18.2	2-12	8*4.3-10	4	1997*467*167	32.0
KB65D0727Z8-17D18D-I-W	690-960 1690-2690	65 60	17 18.1	2-12	8*4.3-10	4	2497*467*167	35.5

12Ports (2L4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A12-15D18F-I-W	690-960 1690-2690	65	15.1 18.2	2-16 2-12	12*4.3-10	6	1485*500*160	29.0
KB65D0727A12-17D18F-I-W	690-960 1710-2690	65	16.4 18.4	2-12	12*4.3-10	6	1985*500*160	33.8
KB65D0727B12-17D18F-I-W	690-960 1710-2690 1427-2690	65	16.4 18.3 18.4	2-12	12*4.3-10	6	1985*500*160	35.3
KB65D0727C12-17D18F-I-W	690-960 1690-2690	65	16.6 18.2	2-12	12*4.3-10	6	2750*467*167	40.0

16Ports (2L6M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D0727A16-17D18S-I-W	690-960 1695-2690 1695-2690	65	17 17.8 17.4	2-12	16*4.3-10	6	2750*467*167	45.0

FDD and TDD Antenna

8 Ports (4M)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KS90D2327A8-18F-I-W	2300-2690	73 54 22	17.8 17.8 21.5	2-12	1* (MQ4+MQ5)	1	1380*318*129	16.5

8 Ports (4H)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KS65D3338A8-16F-I-W	3300-3800	70 65 26	16 16.5 21	2-12	8*4.3-10	4	998*270*140	11.2

12 Ports (2L + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D90D0727A12-17D16F-I-W	690-960	65	17.1	2-12	4*7/16	6	2560*495*185	40.0
	2300-2690	95 68 27	15.3 16.4 19.7	2-12	8*7/16	1		

12 Ports (2M + 4H TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KM65D1735A12-16D16F-I	1710-2170	65	16	0-10	4*7/16 DIN	2	1600*320*140	17.1
	3300-3600	65 / 25	16.5 16.5 22.5	2-12	2*L32-4/5	1		

12 Ports (2L + 4H TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D75D0742A12-15D16F-I-W	690-960	65	14.5	2-12	4*4.3-10	2	1485*500*160	32.0
	3300-4200	75 65 25	24 25 25	2-12	1*(MQ4+MQ5)	1		
KB65D75D0742A12-16D16F-I-W	690-960	65	15.3	2-12	4*4.3-10	2	1985*500*160	32.0
	3300-4200	75 65 25	24 25 25	2-12	1*(MQ4+MQ5)	1		

16 Ports (2L2M + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D90D0727A16-16D18D16F-I-W	690-960 1710-2690	65	16.4 18.4	2-12	8*4.3-10	4	2300*500*160	40.1
	1710-2690	95 65 25	15.7 20.6 20.6	2-12	1*(MQ4+MQ5)	1		

20 Ports (2L4M + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D90D0727A20-17D19F14F-I-W	690-960 1710-2690	16.3 18.4	16.4 18.4	2-12	12*4.3-10	6	2095*500*160	39.2
	2300-2690	90 65 28	14 14.7 19.1	2-12	1*(MQ4+MQ5)	1		

20 Ports (2L4M + 4H TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KS65D70D0738A20-17D19F15F-I-W	690-960 1710-2690	65	16.4 18.4	2-12	12*4.3-10	6	2095*500*160	39.2
	3300-3800	70 65 20	15 15.7 20.1	2-12	1* (MQ4+MQ5)	1		
KB65D90D0738A20-17D19F15F-I-W	690-960 1710-2690	65	16.4 18.4	2-12	12*4.3-10	6	2095*500*160	39.2
	2300-3800	90 65 28	15 15.7 20.1	2-12	1* (MQ4+MQ5)	1		

20 Ports (2L+4M TDD + 4M TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D90D0727A20-15D15F16F-I-W	690-960	65	15	2-12	4*4.3-10	2	2100*469*185	38.0
	1710-2170	90 65 30	15 20.2 19.2	2-12	1* (MQ4+MQ5)	1		
	2300-2690	90 26 30	16 21 19.2	2-12	1* (MQ4+MQ5)	1		

28 Ports (2L4M+4MHf TDD)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB65D90D75D0738A28-17D19F15F17F-I-W	690-960 1710-2690	65	16.6 18.3	2-12	12*4.3-10	6	2600*495*185	48.5
	2300-2690	90 63 26	15 16 20	2-12	1* (MQ4+MQ5)	1		
	3300-3800	75 58 20	16.5 17 21	2-12	1* (MQ4+MQ5)	1		

Special Beam Antenna

8 Ports (4M DB 30°)

Model Name	Frequency (MHz)	HPBW (°)	Gain (dBi)	Electrical Downtilt (°)	RF Connector	RET	Dimension (mm)	Weight (kg)
KB30D1720A8-18F-IJ	1710-2170	35	17.8	0-10	8*7/16	4	1400*396*190	17.8
KB30D1727A8-19F-IJ	1695-2690	35	19	2-12	8*4.3-10	4	1600*396*190	20.5

Site Solutions

Jumper Cable Assemblies

KBT's premium Jumper Cable options are designed for outdoor applications under extreme conditions with high flexibility and small bending diameters. Cable assemblies are available in a variety of lengths and connector combinations and are waterproof per the IP68 water immersion testing standard.

Connectors & Adaptators

KBT offers a multitude of products for wireless infrastructure. Our fast fitting, precision grade RF Connectors & Adaptors are available in 4.3/10, 7/16-DIN and N-Type with male and female interfaces. All are suitable for both copper and aluminum cable assemblies.

AISG Cable

KBT Antenna Solutions control cables are compliant to AISG standards and are offered in many different lengths.

About us

For more information, visit : www.kenbotong.com

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