

## 2300-2690 MHz TDD Smart Antenna

65° HPBW /16.5dBi / 2°-12°T

MQ4&MQ5 Connectors /1.45m

Electrical Specifications				
General Parameters	Frequency Range(MHz)		2300-2400	2496-2690
	Polarization (°)		±45	
	Electrical downtilt(°)		2-12	
Calibration and electrical parameter	Coupling Factor between calibration port and each antenna port(dB)		-26±2	
	Max. amplitude tolerance from calibration port to input ports (dB)		≤0.9	
	Max. phase tolerance between calibration port and each antenna port(°)		≤7	
	Ports VSWR		≤1.5	
	Co-polarization Isolation between ports (dB)		≥20@2T,≥25@3T-12T	
	Cross-polarization Isolation between ports(dB)		≥25	
Radiation parameters	Single column pattern	Horizontal 3dB beam width(°)	75±10	70±10
		Gain (dBi)	15.5±0.5	16.0±0.5
		Vertical 3dB beam width(°)	≥6.0	≥5.0
		Cross polar ratio(0°)(dB)	≥18	≥18
		Front to back ratio(dB)	≥24	≥25
		Sidelobe suppression for first side lobe above main beam(dB)	≥15	≥15
	65°Broadcast beam	Horizontal 3dB beam width(°)	70±8	65±8
		Gain (dBi)	16.0±0.5	16.5±0.5
		±60°Gain roll-offat sector edge(dB)	12±5	12±5
		Vertical 3dB beam width(°)	≥6.0	≥5.0
		Cross polar ratio(0°)(dB)	≥18	≥18
		Front to back ratio(dB)	≥24	≥25
		Sidelobe suppression for first side lobe above main beam(dB)	≥15	≥15
	Service beam	0°direct beam gain(dBi)	19.5±0.5	20.0±0.5
		0°direct beam horizontal 3dB beam width (°)	25	23
		0°direct beam horizontal sidelobe suppression(dB)	12±2	12±2
		0°direct beam cross polar ratio(axial)(dB)	≥20	≥20
		0°direct beam front to back ratio(dB)	≥25	≥25
	60°Soft split electrical	Horizontal 3dB beam width(°)	30±3	28±3
		Gain(dBi)	19.0±0.5	19.5±0.5

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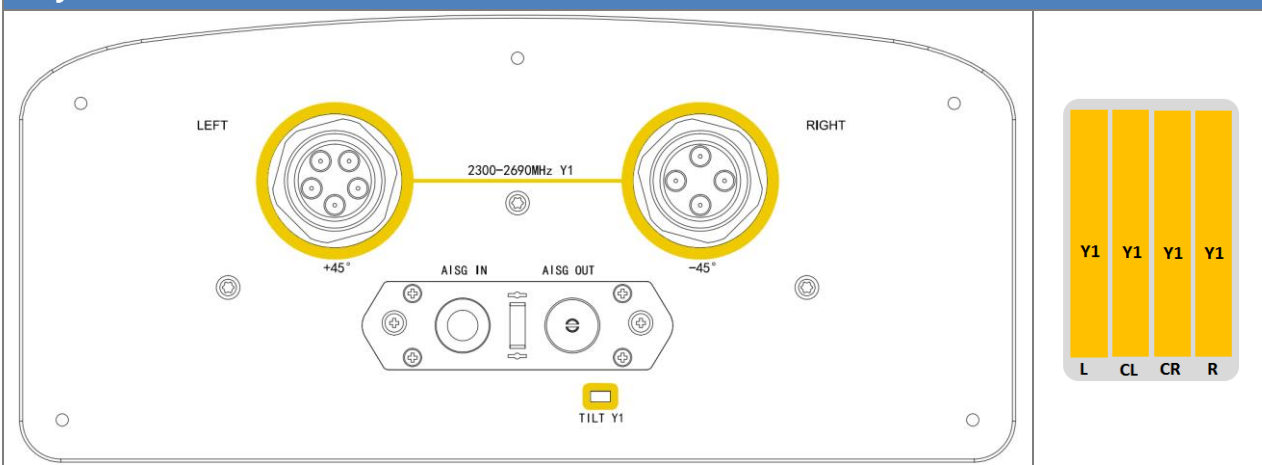
## YBZ-065S17V12.2MQ-01-0155

propertie	Vertical 3dB beam width(°)	≥6.0	≥5.0
	Front to back ratio(dB) above main	≥25	≥25
	Sidelobe suppression for first side lobe above main beam(dB)	≥15	≥15

### Mechanical Specifications

RET type	Integrated RET (AISG2.0/3GPP)	
AISG Connectors (1 input and 1 output)	(in: Male; out: Female)	
Connector	1×MQ4+1×MQ5	
Antenna Dimensions (H x W x D) (mm)	1450×320×140	
Packing Size (H x W x D) (mm)	1720×410×230	
Antenna weight (kg)	16.0±1.0	
Clamps weight (kg)	5.2±0.5	
Packing weight(kg)	23.5±1.0	
Diameter of installation pole	φ50~φ110mm	
Radome material	Fiberglass	
Mechanical Tilt Range (°)	0-15	
Radome color	Light grey	
Operational temperature (°C)	-40 to +60	
Wind load @150km/h (N)	428/186/571(Frontal/Lateral/Rear side)	
Max. operational wind speed (km/h)	241	

### Layout

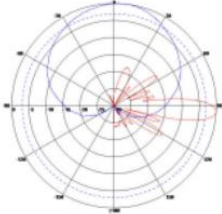
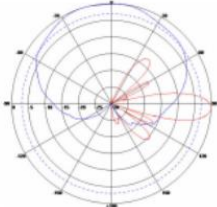
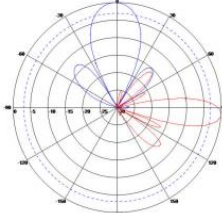
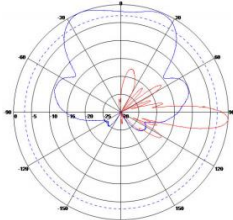
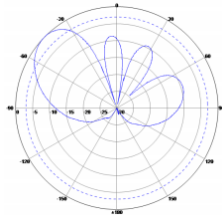
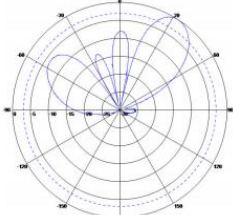


Frequency Range	Array	Connector
2300-2690MHz	Y1(L/CL/CR/R)	MQ5/MQ4(1-5/2-6/3-7/4-8+Cal)

### Pattern

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## YBZ-065S17V12.2MQ-01-0155

	
Single Column Beam	65° Broadcast
	
0° Service Beam	BCH Beam
	
Multi-Beam -30°	Multi-Beam +30°

### Accessories

Item	Model	Weight (kg)	Mechanical Tilt Range (°)
Mounting Kit	38AA	5.2	0-15