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ANTENNAS

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I. DAS Directional Wall-mounted & Pole-mounted Panel Antenna

350～450/825～880/1710～2700MHz 110°/140°/40° 3/4/7dBi Directional Panel Antenna

TKLDJ-0327EC

Application

Used in 2G/3G/4G/WLAN system

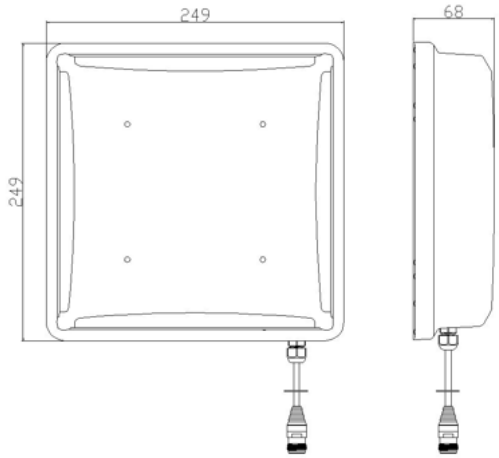
Electrical specifications			
Frequency range (MHz)	350～450	825～880	1710～2700
Polarization	Vertical		
Gain (dBi)	3±1.5	4±1.5	7±1.5
Horizontal beam width (°)	110	140	40
Vertical beam width (°)	90	110	50
Impedance (Ω)	50		
VSWR	≤2.5	≤2.0	≤1.8
Maximum power (W)	50		
Mechanical specifications			
Connector	N Female		
Exposed cable size (cm)	20		
Connector position	Bottom		
Antenna size (mm)	（249×249×68）±1.5		
Packing size (mm)	338*255*90		
Weight (kg)	0.75±0.1		
Radome material	ABS		
Radome color	White		
Operating temperature (℃)	-40～60		
Application	Indoor		
Mounting	Wall Mounting		

350～450MHz Typical pattern: **825～880MHzTypical pattern:** **1710～2700MHzTypical pattern:**

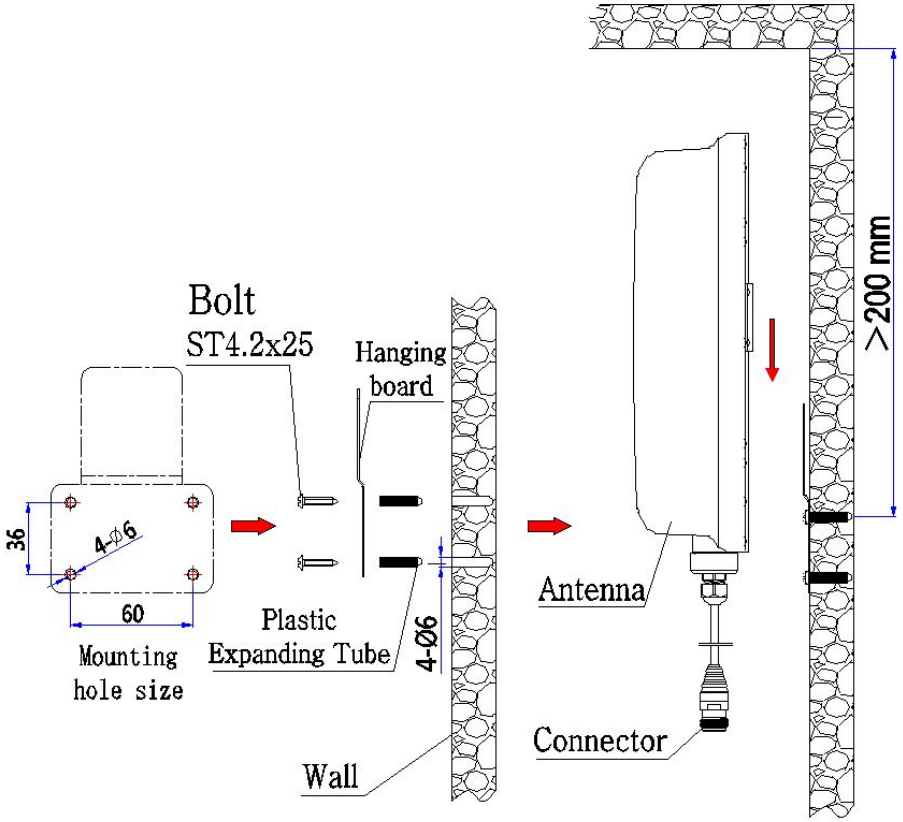
350～450/825～880/1710～2700MHz 110° /140° /40°
3/4/7dBi Directional Panel Antenna

Product pictures

Product size



Installation Sketch



1.Position and fix the mounting plate onto the wall with the countersunk self-tapping screws ST4.2×25 and plastic accessories.

2.Finish the installation by matching the clamp piece on the antenna base plate to the mounting plate hanger.

350～490/698～960/1710～2700MHz 110°/140°/40° 3/4/7dBi Directional Panel Antenna

TKLDJ-0327EC-Y

Application

Used in 2G/3G/4G/WLAN system

Electrical specifications			
Frequency range (MHz)	350～490	698～960	1710～2700
Polarization	Vertical		
Gain (dBi)	3±1.5	4±1.5	7±1.5
Horizontal beam width (°)	110	140	40
Vertical beam width (°)	90	110	50
Impedance (Ω)	50		
VSWR	≤2.5	≤2.5	≤1.8
Maximum power (W)	50		

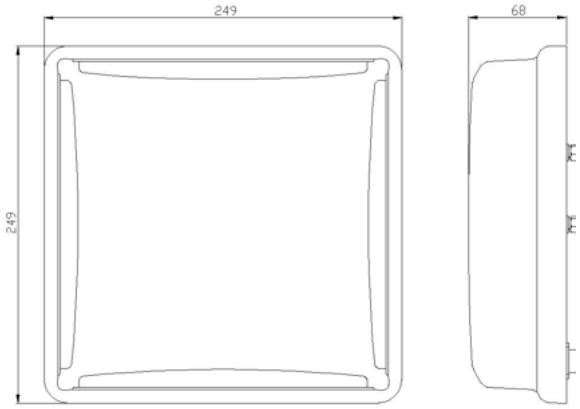
Mechanical specifications	
Connector	N Female (or Customized)
Exposed cable size (cm)	15 (or Customized)
Connector position	Bottom
Antenna size (mm)	249*249*68
Packing size (mm)	370*255*108
Weight (kg)	1.1(Include bracket)
Radome material	ABS
Radome color	White
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	Adjusting Elevation 0～20/Adjusting Turn ±45
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ130-Φ400
Mounting kit	JM-VB8

350～490MHz Typical pattern: **698～960MHzTypical pattern:** **1710～2700MHzTypical pattern:**

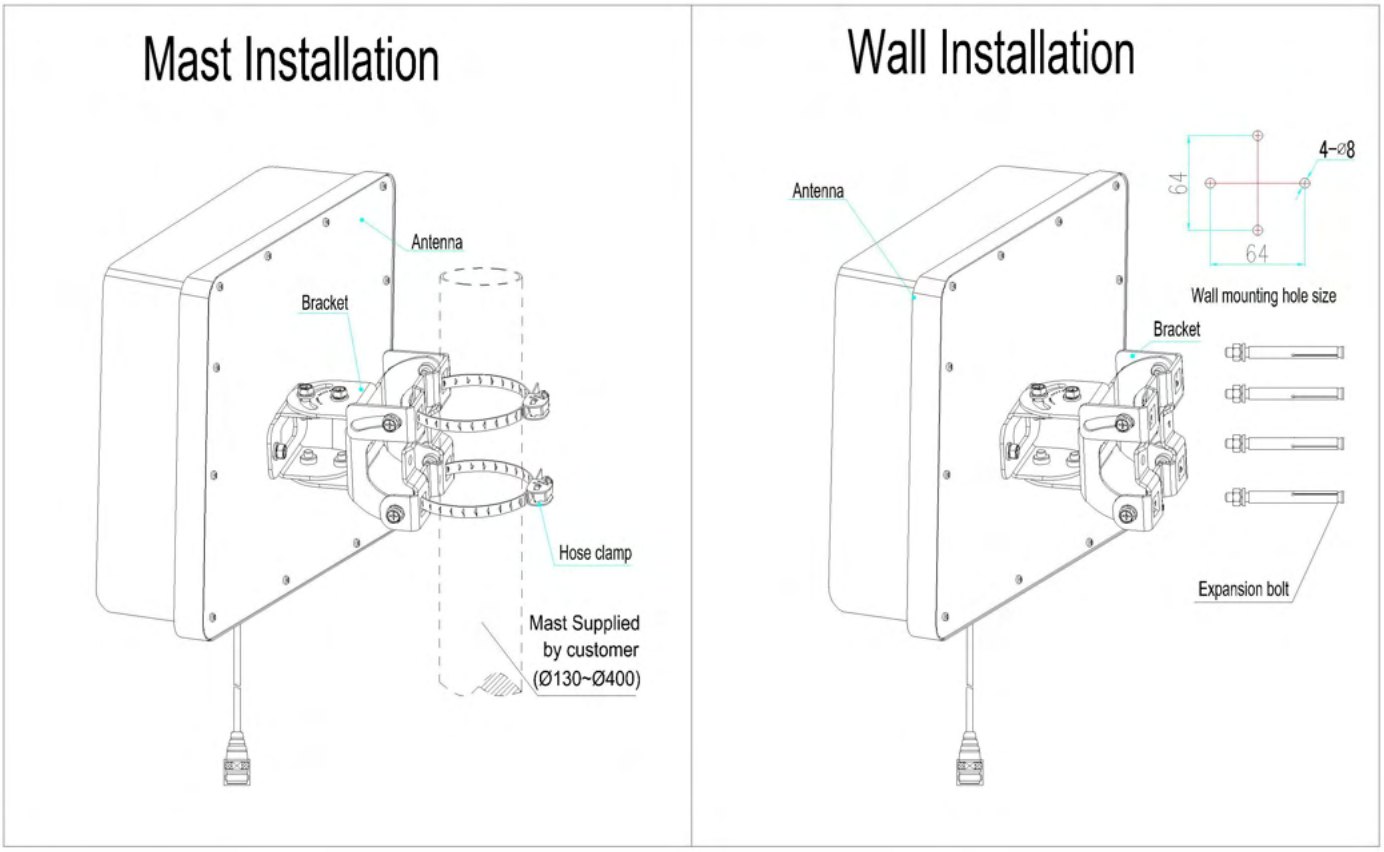
350～490/698～960/1710～2700MHz　110°/140°/40°
3/4/7dBi　Directional Panel Antenna

Product pictures

Product size



Installation Sketch



617～698/698～960/1695～2700/3300～4200MHz 90°/80°/75°/55°
6/7/8/9dBi Directional Panel Antenna

TKLDJ-0642BGA-MY

Application

Used in 2G/3G/4G/5G/WLAN system

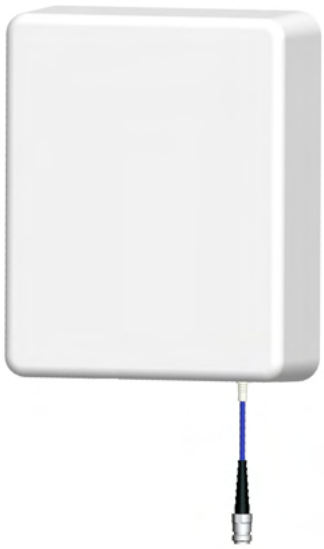
Electrical specifications				
Frequency range (MHz)	617～698	698～960	1695～2700	3300～4200
Polarization	Vertical			
Gain (dBi)	6	7	8	9
Horizontal beam width (°)	90	80	75	55
Typical Vertical beam width (°)	75	80	70	50
Front-to-back ratio (dB,avg.)	14	16	25	20
Impedance (Ω)	50			
VSWR	≤1.8			
Intermodulation IM3 (2×43dBm carrier)	-153dBc	-153dBc	-153dBc	-153dBc
Maximum power (W)	50			
Lighting protection	DC Ground			

Mechanical specifications	
Connector	4.3-10 Female or N Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	306*250*86
Packing size (mm)	455*260*113
Weight (kg)	≤1.5
Radome material	ABS
Radome color	White (RAL 9003)
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	Adjusting Elevation 0～20/Adjusting Turn ±45
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ35～Φ125
Mounting kit	JM-VB8

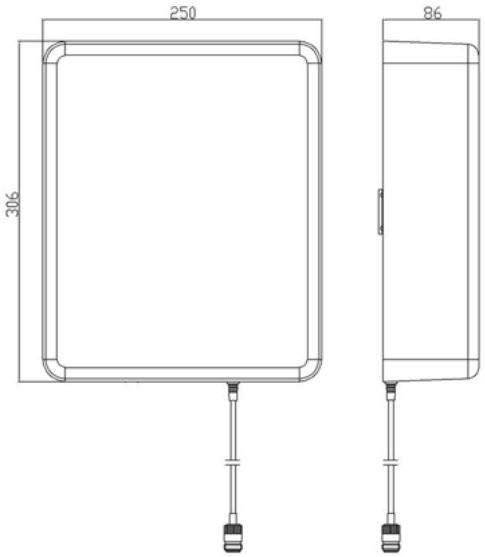
617～960MHzTypical pattern: **1695～2700MHzTypical pattern:** **3300～4200MHzTypical pattern:**

617～698/698～960/1695～2700/3300～4200MHz 90°/80°/75°/55°
6/7/8/9dBi Directional Panel Antenna

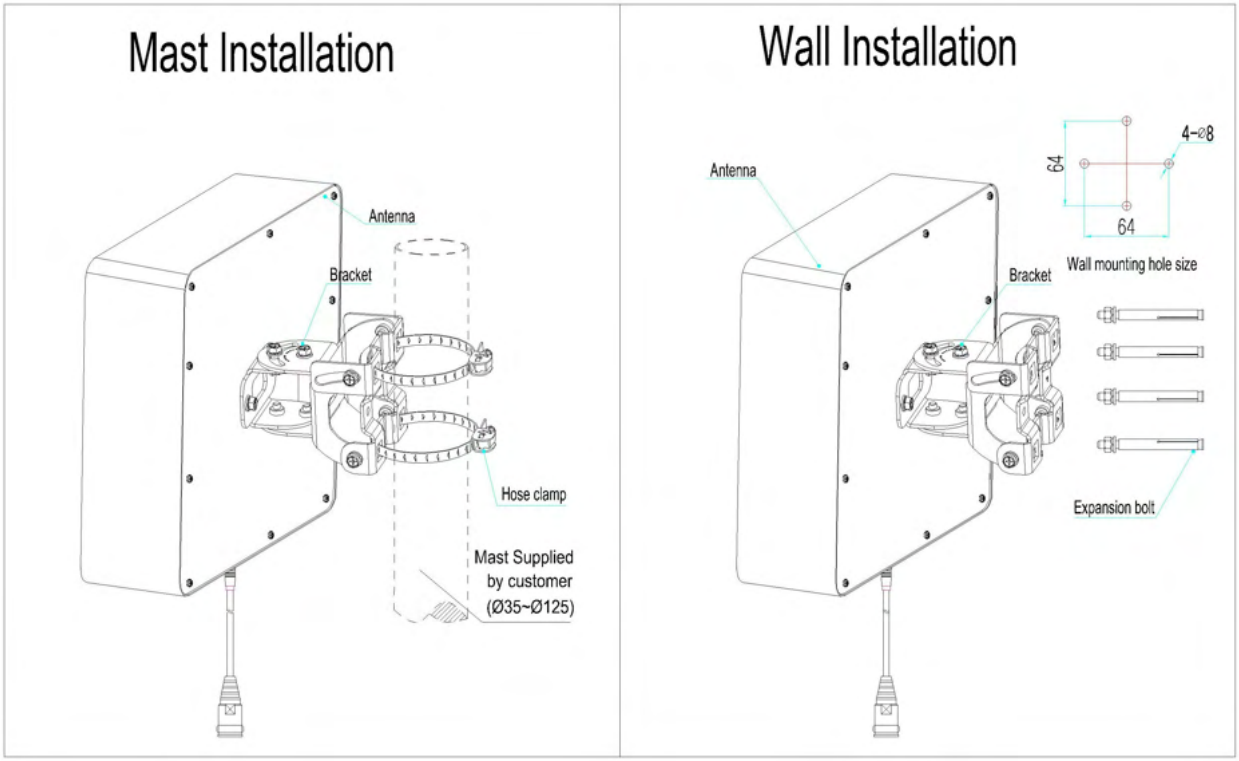
Product pictures



Product size



Installation Sketch



617～960/1695～2700/3300～4200/4800～6000MHz 85°/70°/75°/50°
6/7/8/8dBi SISO Directional Panel Antenna

TKLDJ-0660BGA-MY

Application

Used in 2G/3G/4G/5G/WLAN system

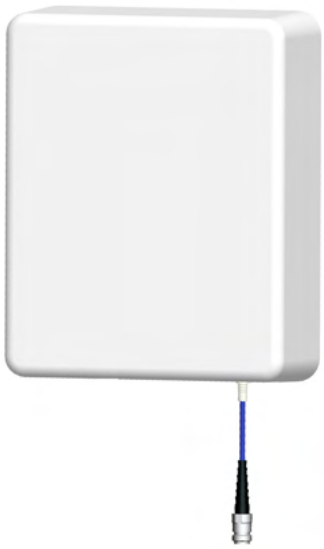
Electrical specifications				
Frequency range (MHz)	617～960	1695～2700	3300～4200	4800～6000
Polarization	Vertical			
Gain (dBi)	6	7	8	8
Horizontal beam width (°) (Typ.)	85	70	75	50
Vertical beam width (°) (Typ.)	75	60	80	35
Front-to-back ratio (dB,avg.)	15	20	25	18
Impedance (Ω)	50			
VSWR	≤1.8			≤2.2
Intermodulation IM3 (2×43dBm carrier)	-153dBc	-153dBc	-153dBc	/
Maximum power (W)	50			
Lighting protection	DC Ground			

Mechanical specifications	
Connector	4.3-10 Female or N Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	306*250*86
Packing size (mm)	455*260*113
Weight (kg)	≤1.3
Radome material	ABS
Radome color	White (RAL 9003)
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	Adjusting Elevation 0～20/Adjusting Turn ±45
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ35～Φ125
Mounting kit	JM-VB8

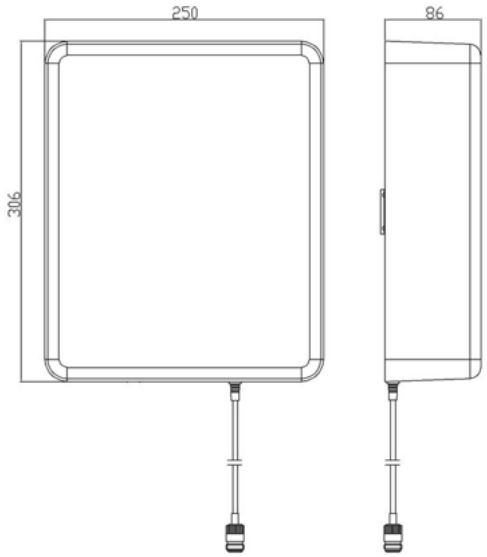
617～960MHzTypical pattern: **1695～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

617～960/1695～2700/3300～4200/4800～6000MHz 85°/70°/75°/50°
6/7/8/8dBi SISO Directional Panel Antenna

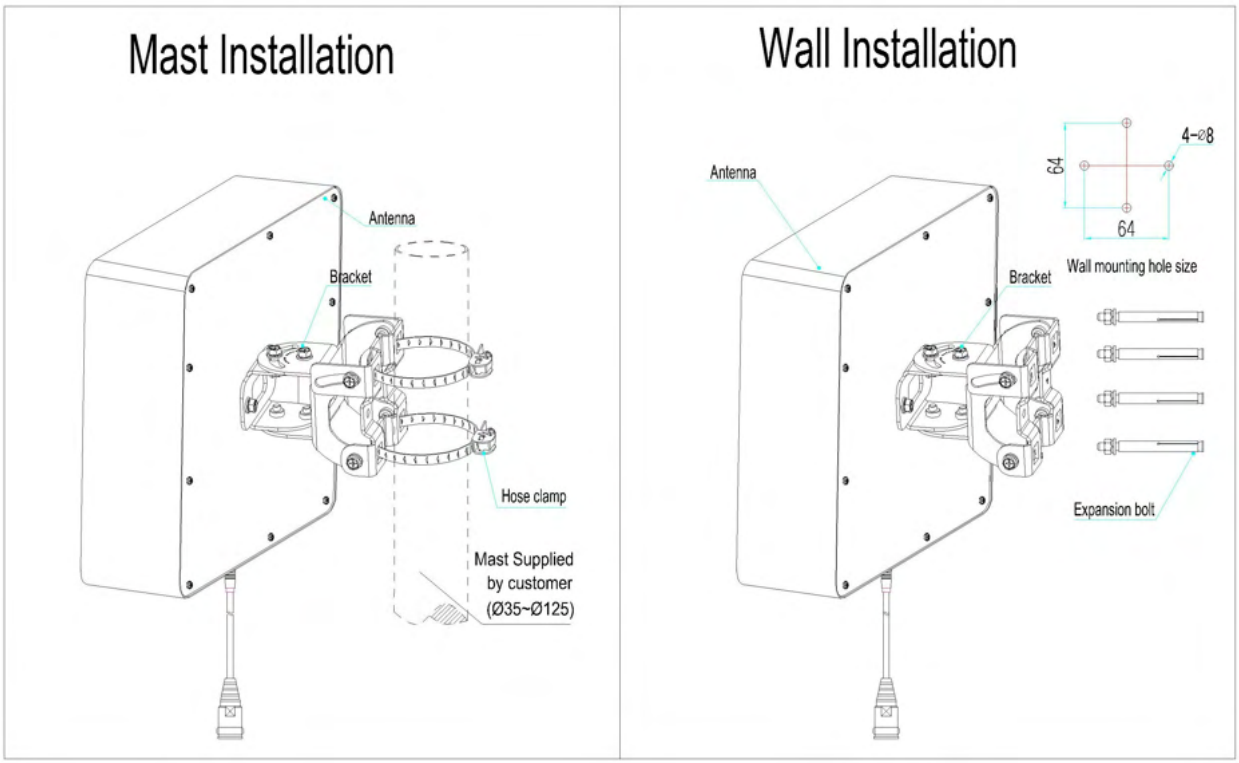
Product pictures



Product size



Installation Sketch



698～806/806～960/1710～2170/2200～2700/3400～4000MHz
80°/80°/65°/60°/55°　5/6/7/7.5/8.5dBi　SISO Directional Panel Antenna

TKLDJ-0740BGF-M

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications

Frequency range (MHz)	698～806	806～960	1710～2170	2200～2700	3400～4000
Polarization	Vertical				
Gain (dBi)	5±0.5	6±0.5	7±0.5	7.5±0.5	8.5±0.5
Horizontal beam width (°) (Typ.)	80	80	65	60	55
Vertical beam width (°) (Typ.)	73	70	60	60	30
Front-to-back ratio (dB,avg.)	5	8	10	15	10
Impedance (Ω)	50				
VSWR	≤1.8				
Intermodulation IM3 (2×43dBm carrier)	-153dBc				
Maximum power (W)	50				

Mechanical specifications

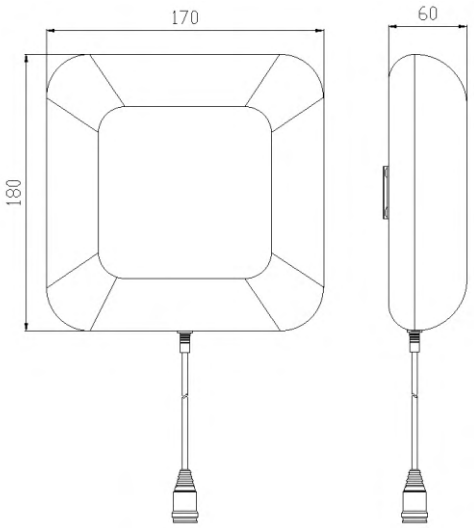
Connector	4.3-10 Female or N Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	180*170*60
Packing size (mm)	234*188*78
Weight (kg)	≤0.4
Radome material	ABS
Radome color	White (RAL 9003)
Operating temperature (℃)	-40～60
Application	On-wall

698～960MHzTypical pattern:　**1710～2700MHzTypical pattern:**　**3400～4000MHzTypical pattern:**

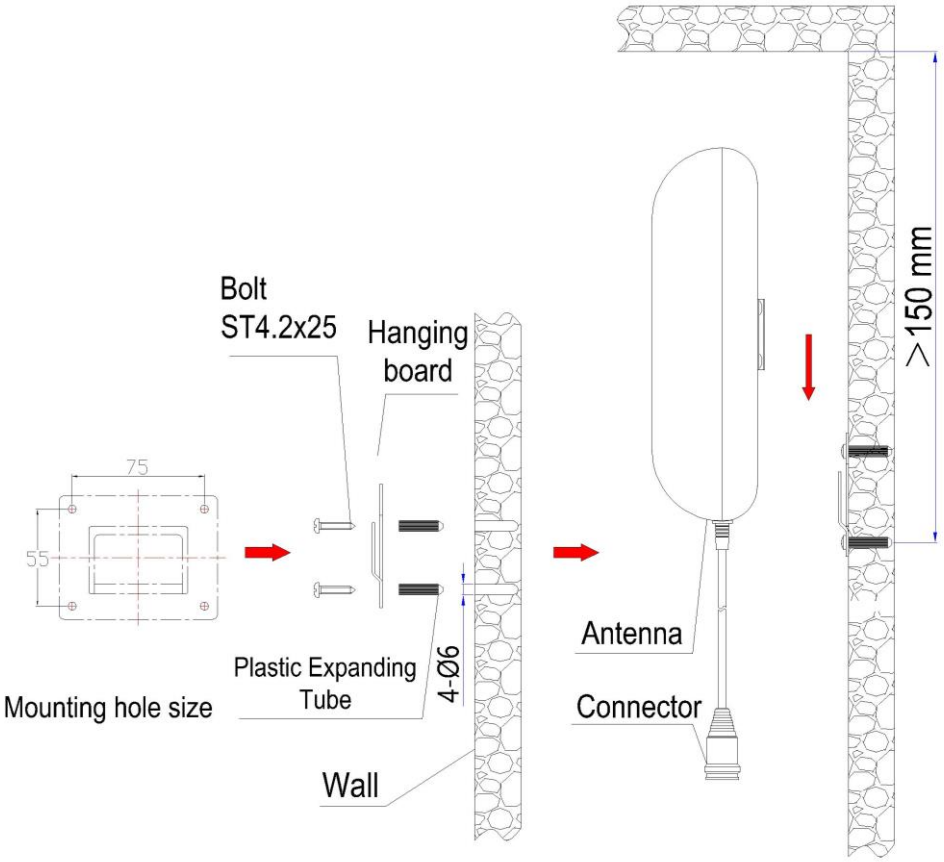
698～806/806～960/1710～2170/2200～2700/3400～4000MHz
80°/80°/65°/60°/55° 5/6/7/7.5/8.5dBi SISO Directional Panel Antenna

Product pictures

Product size



Installation Sketch



1、Position and fix the mounting plate onto the wall with the countersunk self-tapping screws ST4.2×25 and plastic accessories.

2、Finish the installation by matching the clamp piece on the antenna base plate to the mounting plate hanger.

617～698/698～960/1695～2700/3300～4200MHz 90°/80°/75°/55°
6/7/8/9dBi MIMO Directional Panel Antenna

TKLDJ-X0642BGA-MY

Application

Used in 2G/3G/4G/5G/WLAN system

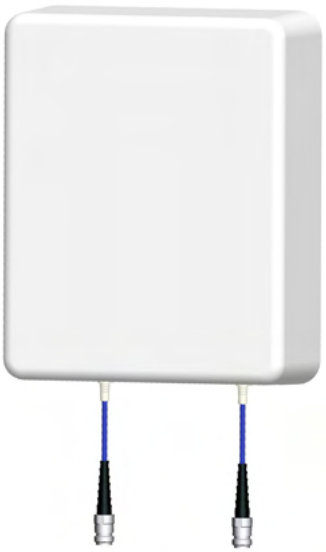
Electrical specifications				
Frequency range (MHz)	617～698	698～960	1695～2700	3300～4200
Polarization	±45°			
Gain (dBi)	6	7	8	9
Typical Horizontal beam width (°)	90	80	75	55
Typical Vertical beam width (°)	75	80	70	50
Front-to-back ratio (dB,avg.)	14	16	25	20
Isolation (dB)	≥20	≥20	≥20	≥20
Impedance (Ω)	50			
VSWR	≤1.8			
Intermodulation IM3 (2×43dBm carrier)	-153dBc	-153dBc	-153dBc	-153dBc
Maximum power (W)	50			
Lighting protection	DC Ground			

Mechanical specifications	
Connector	2*4.3-10 Female or 2*N Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	306*250*86
Packing size (mm)	455*260*113
Weight (kg)	≤1.5
Radome material	ABS
Radome color	White (RAL 9003)
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	Adjusting Elevation 0～20/Adjusting Turn ±45
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ35～Φ125
Mounting kit	JM-VB8

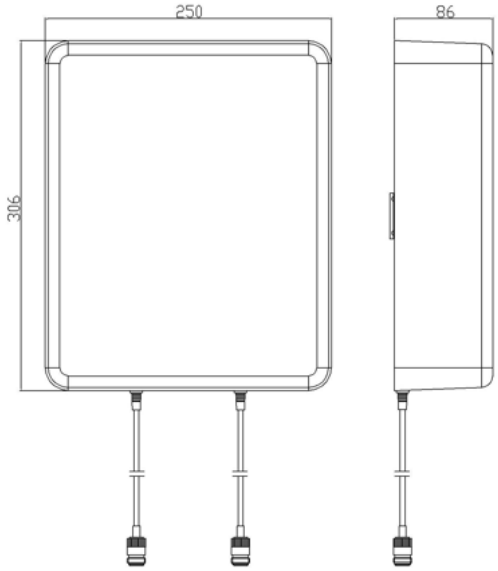
617～960MHzTypical pattern: **1695～2700MHzTypical pattern:** **3300～4200MHzTypical pattern:**

617～698/698～960/1695～2700/3300～4200MHz　90°/80°/75°/55°
6/7/8/9dBi　MIMO Directional Panel Antenna

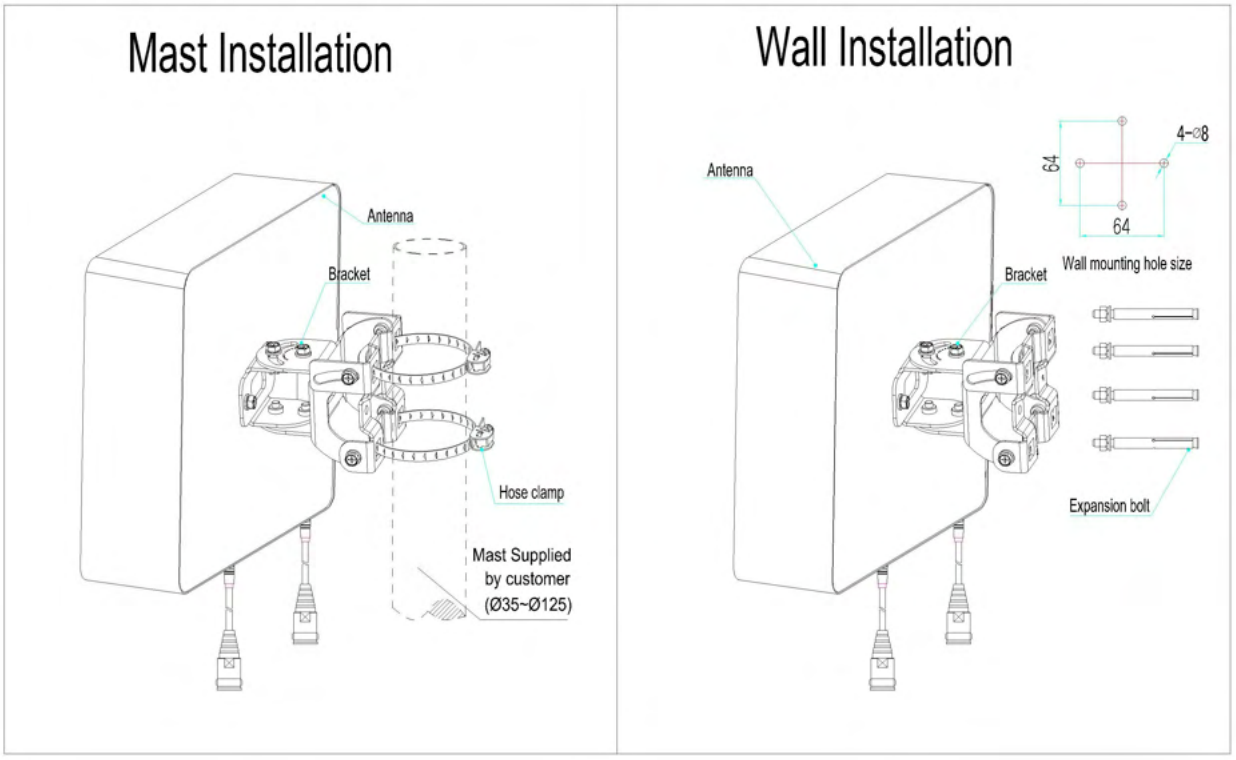
Product pictures



Product size



Installation Sketch



617～960/1695～2700/3300～4200/4800～6000MHz 85°/70°/75°/50°
6/7/8/8dBi MIMO Directional Panel Antenna

TKLDJ-X0660BGA-MY

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications				
Frequency range (MHz)	617～960	1695～2700	3300～4200	4800～6000
Polarization	±45°			
Gain (dBi)	6	7	8	8
Horizontal beam width (°) (Typ.)	85	70	75	50
Vertical beam width (°) (Typ.)	75	60	80	35
Front-to-back ratio (dB,avg.)	15	20	25	18
Isolation (dB)	≥20	≥20	≥20	≥25
Impedance (Ω)	50			
VSWR	≤1.8			≤2.2
Intermodulation IM3 (2×43dBm carrier)	-153dBc	-153dBc	-153dBc	/
Maximum power (W)	50			
Lighting protection	DC Ground			

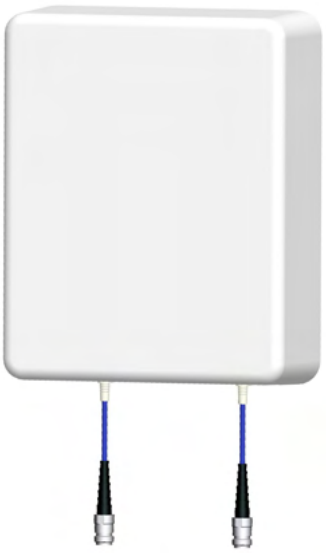
Mechanical specifications	
Connector	2*4.3-10 Female or 2*N Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	306*250*86
Packing size (mm)	455*260*113
Weight (kg)	≤1.5
Radome material	ABS
Radome color	White (RAL 9003)
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	Adjusting Elevation 0～20/Adjusting Turn ±45
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ35～Φ125
Mounting kit	JM-VB8

617～960MHzTypical pattern: **1695～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

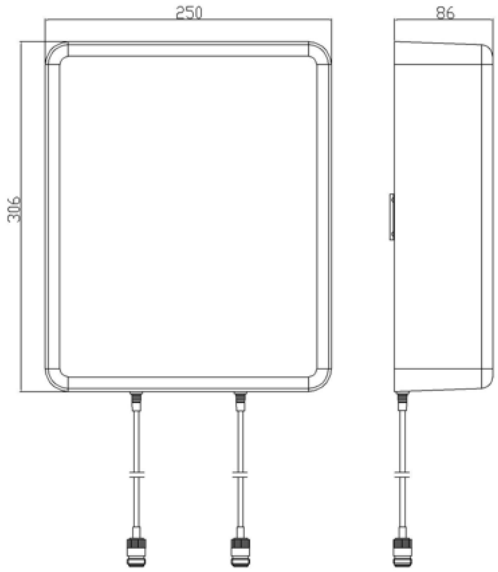
617～960/1695～2700/3300～4200/4800～6000MHz 85°/70°/75°/50°

6/7/8/8dBi MIMO Directional Panel Antenna

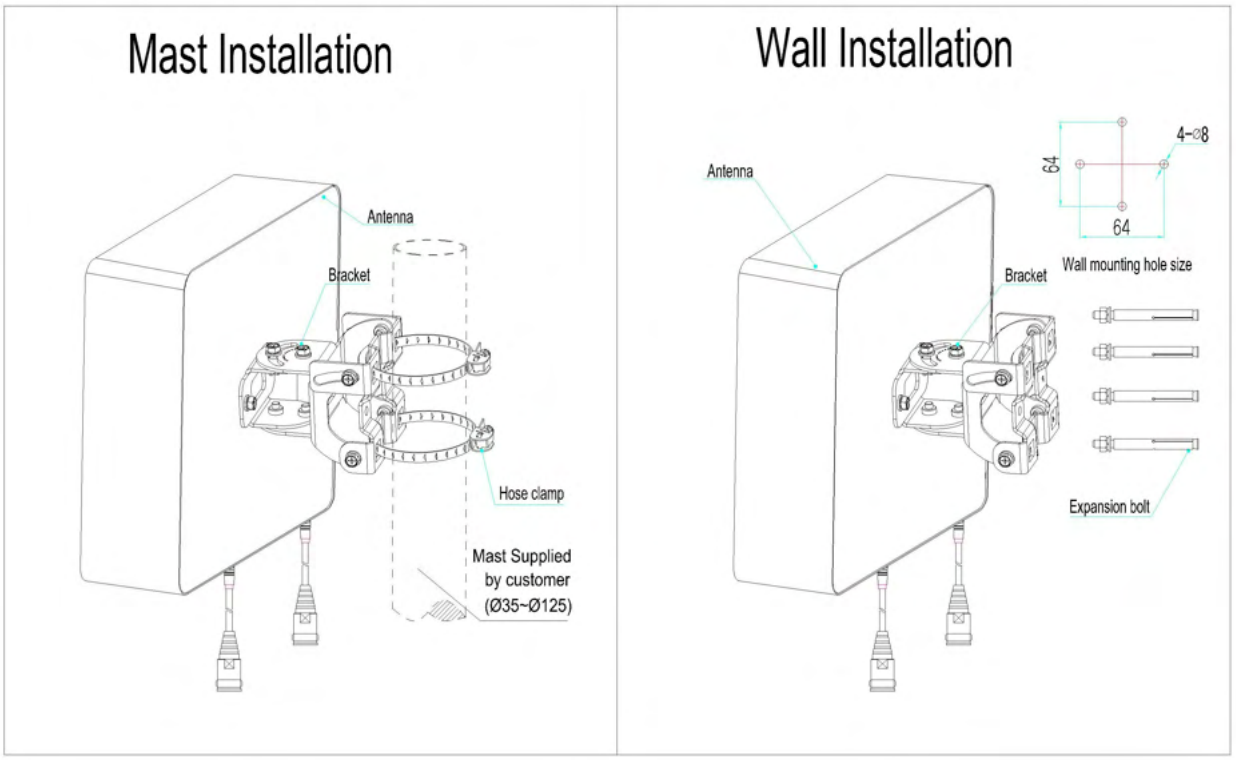
Product pictures



Product size



Installation Sketch



II. DAS Directional Logarithmic Periodic Antenna

617～960/1695～2700/3300～4200/4800～6000MHz 90°/65°/50°/40°
9/10/10.5/10.5dBi Logarithmic Periodic Directional Antenna

TKLDJ-0660DSKL-M

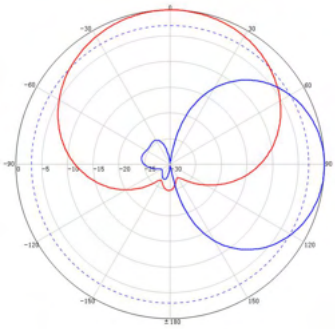
Application

Used in 2G/3G/4G/5G/WLAN system

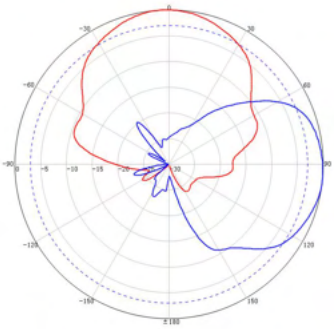
Electrical specifications				
Frequency range (MHz)	617～960	1695～2700	3300～4200	4800～6000
Polarization	Vertical			
Peak Gain (dBi)	9	10	10.5	10.5
Horizontal beam width (°)	90±15	65±15	50±15	35±15
Vertical beam width (°)	60	55	40	35
Front-to-back ratio (dB,avg.)	15	20	18	15
Impedance (Ω)	50			
VSWR	≤2.0			
Intermodulation IM3 (2×43dBm carrier)	-153dBc	-153dBc	-153dBc	/
Maximum power (W)	50			

Mechanical specifications	
Connector	N Female or 4.3-10 Female
Exposed cable size (cm)	30
Connector position	Bottom
Antenna size (mm)	512*210*64
Packing size (mm)	588*225*90
Weight (kg)	≤1.1 (Include bracket)
Radome material	ABS
Radome color	White
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	0～60
Rated wind velocity (m/s)	55
Suitable pole diameter (mm)	Φ25-Φ50
Mounting kit	JM-TA

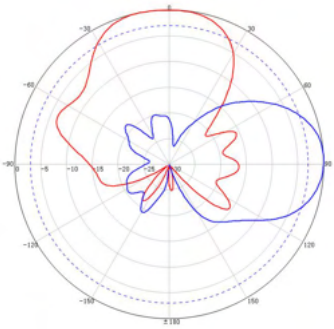
617～960MHz Typical pattern:



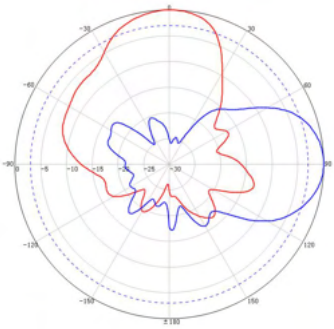
～2700MHz Typical pattern:



～4200MHz Typical pattern:



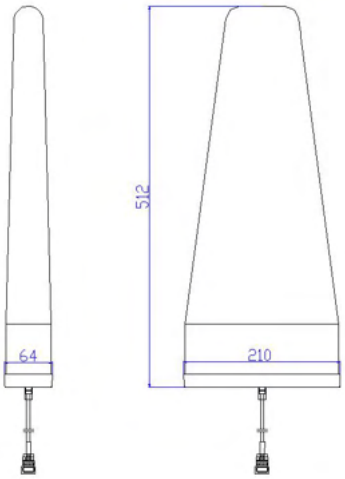
～6000MHz Typical pattern:



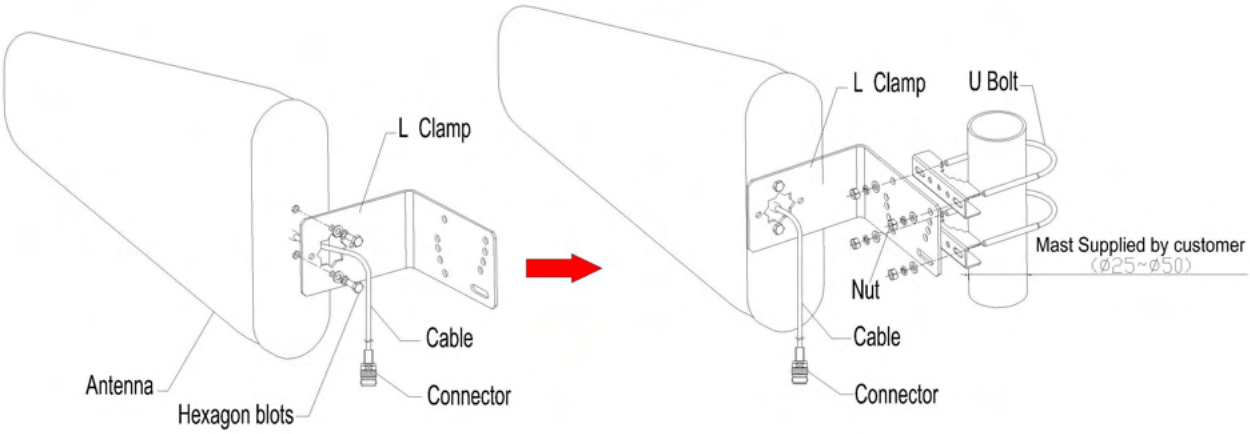
617～960/1695～2700/3300～4200/4800～6000MHz 90°/65°/50°/40°
9/10/10.5/10.5dBi Logarithmic Periodic Directional Antenna

Product pictures

Product size



Installation Sketch



Note:Insure that the antenna is installing with the drip hole at the bottom(be mounted the bottom down to avoid water penetrate into the antenna).

698～960/1710～2700MHz 75°/65° 9.5/10dBi Logarithmic Periodic Directional Antenna

TKLDJ-0727DSFL-M

Application

Used in 2G/3G/4G/WLAN system

Electrical specifications				
Frequency range (MHz)	698～806	806～960	1710～2500	2500～2700
Polarization	Vertical			
Gain (dBi)	9.5±1		10±1	
Horizontal beam width (°)	75±12		65±12	
Vertical beam width (°)	55		50	
Front-to-back ratio (dB)	≥16		≥18	
Impedance (Ω)	50			
VSWR	≤2.0	≤1.5	≤1.5	≤2.0
Intermodulation IM3 (2×33dBm carrier)	≤-140dBc			
Maximum power (W)	50			
Lighting protection	DC Ground			

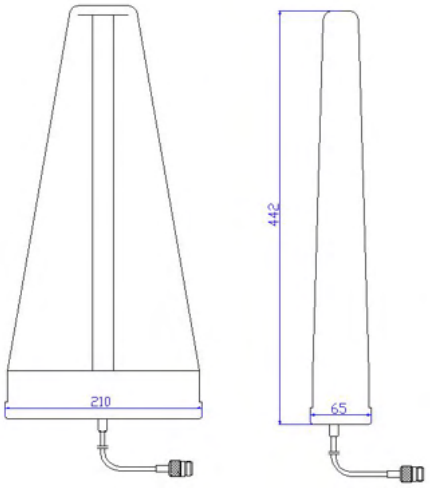
Mechanical specifications	
Connector	N Female or customer requirement
Exposed cable size (cm)	20(or customer requirement)
Connector position	Bottom
Antenna size (mm)	（442*210*65）±1.5
Packing size (mm)	488*225*88
Weight (kg)	1 (Include bracket)
Radome material	ABS
Radome color	White
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	0～60
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ25-Φ50
Mounting kit	JM-TA

698～960MHz Typical pattern: **1710～2700MHzTypical pattern:**

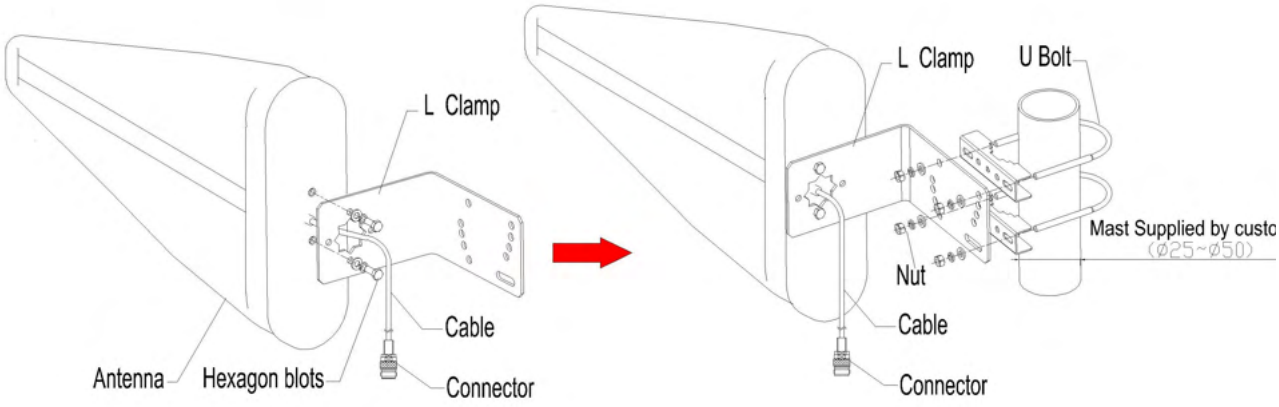
698～960/1710～2700MHz 75°/65° 9.5/10dBi
Logarithmic Periodic Directional Antenna

Product pictures

Product size



Installation Sketch



Note:When installing, you should let the side with a littlehole face down to prevent the antenna radome from water.

698～960/1710～2700/3300～3800MHz 85°/70°/60°
9.5/10.5/11dBi Logarithmic Periodic Directional Antenna

TKLDJ-0738DSFL-M

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications			
Frequency range (MHz)	698～960	1710～2700	3300～3800
Polarization	Vertical		
Gain (dBi)	9.5±1	10.5±1	11±1
Horizontal beam width (°)	85±15	70±15	60±15
Vertical beam width (°)	60	55	50
Front-to-back ratio (dB)	15	20	18
Impedance (Ω)	50		
VSWR	≤1.7		
Intermodulation IM3 (2×43dBm carrier)	-153dBc		
Maximum power (W)	50		

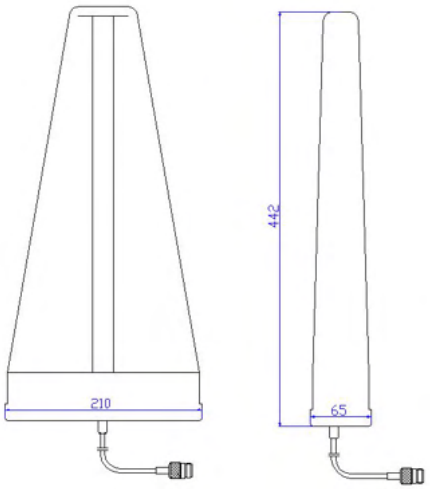
Mechanical specifications	
Connector	N Female or 4.3-10 Female
Connector position	Bottom
Antenna size (mm)	（442*210*65）±1.5
Packing size (mm)	488*225*88
Weight (kg)	1 (Include bracket)
Radome material	ABS
Radome color	White
Operating temperature (℃)	-40～60
Application	Outdoor
Mechanical tilt (°)	0～60
Rated wind velocity (m/s)	55
Suitable pole diameter (mm)	Φ25-Φ50
Mounting kit	JM-TA

698～960MHz Typical pattern: **1710～2700MHzTypical pattern:** **3300～3800MHzTypical pattern:**

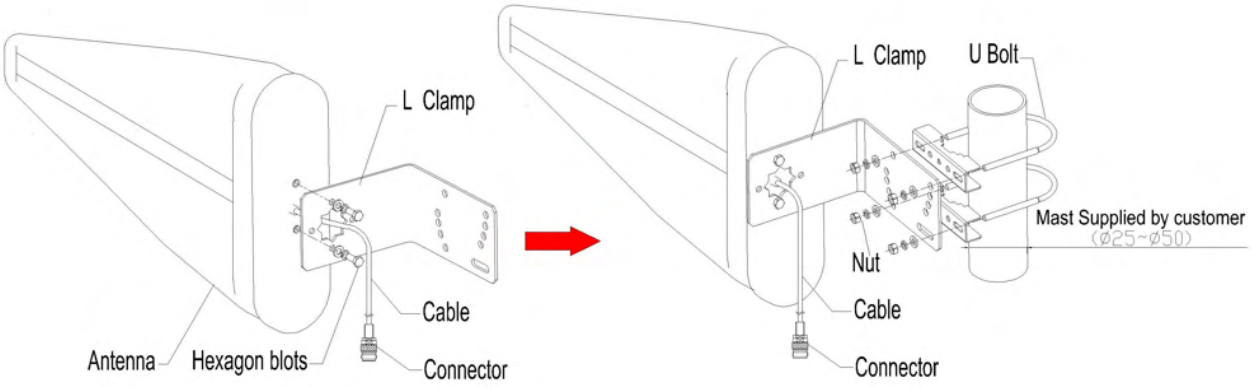
698～960/1710～2700/3300～3800MHz 85°/70°/60°
9.5/10.5/11dBi Logarithmic Periodic Directional Antenna

Product pictures

Product size



Installation Sketch



Note:When installing, you should let the side with a littlehole face down to prevent the antenna radome from water.

III. DAS Omni-directional Ceiling Antenna

TKLQJ-0306X TL
Indoor Antenna

Technical Sheet

Applications

- 350 to 600MHz Band
- Indoor Coverage
- Wireless Digital communication

Features

- Broadband
- Compact size, Perfect performance
- Ceiling mounting

Specification

Model	TKLQJ-0306XTL
Freq.Range-MHz	350 to 600
Bandwidth-MHz	200
Gain-dBi	2
VSWR	≤2.5
Impedance-Ω	50
Polarization	Vertical
Max.Power-W	50
Connector	N Female or customized
Dimension-mm	160×135×5
Weight-g	109
Note:VSWR would fluctuate at 2.5±0.5 when install on different ceiling.	

Installation Sketch

350～450/698～806/806～960/1710～2700MHz 2/3/6.5dBi Omnidirectional ceiling antenna

TLKQJ-0327XDK

Application

Used in 2G/3G/4G/WLAN system

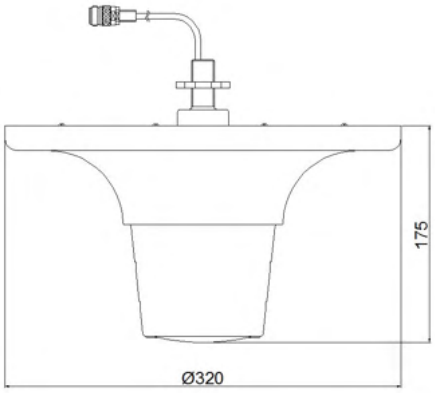
Electrical specifications				
Frequency range (MHz)	350～450	698～806	806～960	1710～2700
Polarization	Vertical			
Gain (dBi)	2±1	3±1.5		6.5±1.5
Horizontal beam width (°)	360			
Vertical beam width (°)	85	60		30
Impedance (Ω)	50			
VSWR	≤2.5	≤2.2	≤1.8	≤1.8
Maximum power (W)	50			
Mechanical specifications				
Connector	N Female or customized			
Exposed cable size (cm)	15 or customized			
Connector position	Bottom			
Antenna size (mm)	（Φ320*175）±2			
Packing size (mm)	273*273*274			
Weight (kg)	0.6±0.1			
Radome material	ABS			
Radome color	White			
Operating temperature (℃)	-40～60			
Application	Indoor			
Mounting	Nut			

350～450MHz Typical pattern: **698～960MHzTypical pattern:** **1710～2700MHzTypical pattern:**

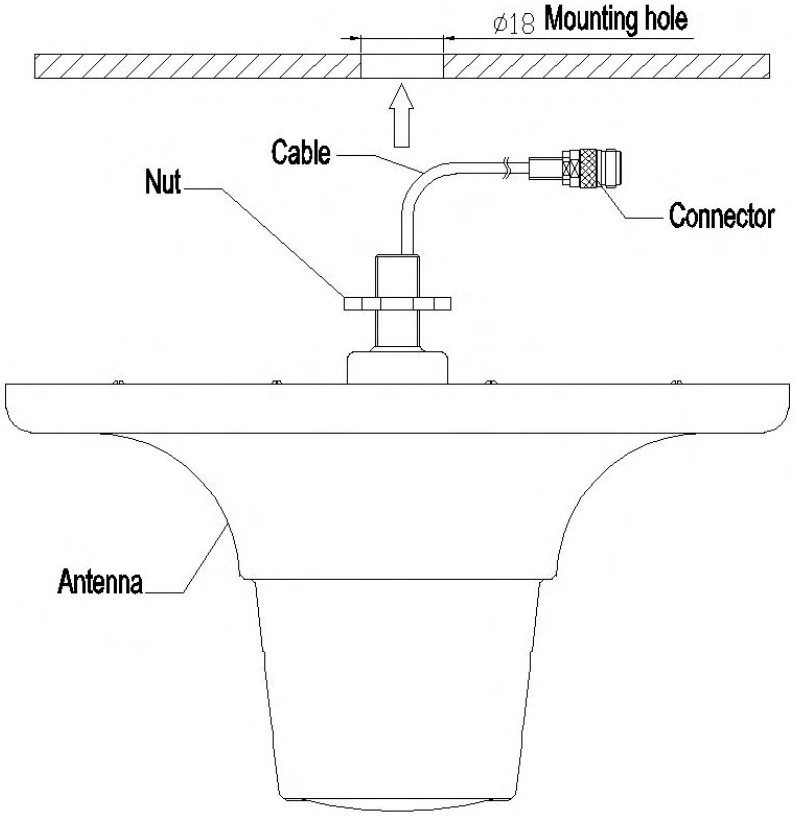
350～450/698～806/806～960/1710～2700MHz 2/3/6.5dBi
Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ18 - Φ25 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

380-698/698-960/1710-2700/3300-4200MHz 2/3/6.5/5dBi Omni Ceiling Mount Antenna

TKLQJ-0438XDK

Application

Support Wireless Transmission Digital Cluster/2G/3G/4G/5G system

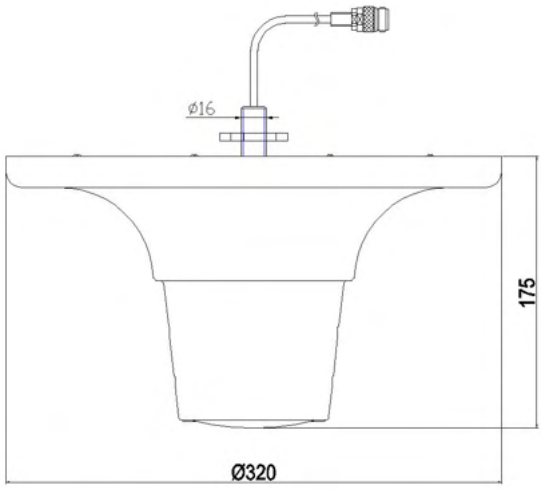
Electrical specifications				
Frequency Range (MHz)	380-698	698-960	1710-2700	3300-4200
Polarization	Vertical			
Gain (dBi)	2±1	3±1.5	6.5±1.5	5±1
Horizontal Power Beam Width (°)	360			
Vertical Power Beam Width (°)	85	60	45	35
Impedance (Ω)	50			
VSWR	≤2.2		≤2.0	
Maximum Power (W)	50			
Mechanical specifications				
Connector	N Female or Customized			
Lead Length (cm)	20 or Customized			
Connector Position	Bottom			
Diameter / Height (mm)	（Φ320*175）±2			
Packing Size (mm)	273*273*274			
Weight (kg)	0.7±0.1			
Radome Material	ABS			
Radome Color	White			
Operating Temperature (℃)	-40-+60			
Application	Indoor			
Mounting	Ceiling Mount			

380-960MHz Typical Pattern: **1710-2700MHz Typical Pattern:** **3300-4200MHz Typical Pattern:**

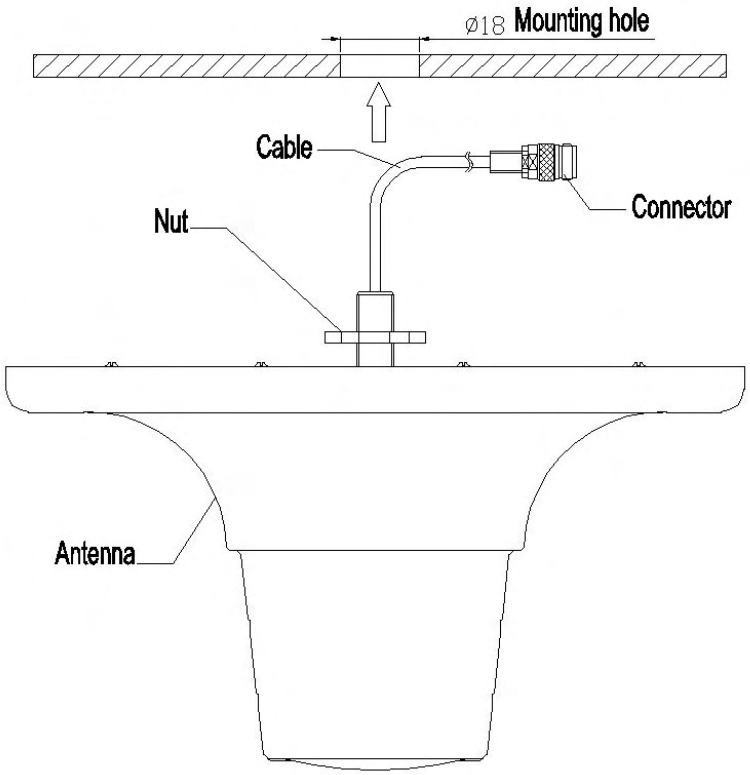
380-698/698-960/1710-2700/3300-4200MHz 2/3/6.5/5dBi
Omni Ceiling Mount Antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ18 - Φ25 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

617～960/1710～2700/3300～4200/4800～6000MHz 3.5/4/5/5dBi

SISO Omnidirectional ceiling antenna

TKLQJ-0660MOE

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications				
Frequency range (MHz)	617-960	1710～2700	3300～4200	4800～6000
Polarization	Vertical			
Peak Gain (dBi)	3.5	4	5	5
Horizontal beam width (°)	360			
Typical Vertical beam width (°)	80	50	40	50
Impedance (Ω)	50			
VSWR	≤2.0			
Maximum power (W)	50			
Lighting protection	DC Ground			
Mechanical specifications				
Connector	N Female or 4.3-10 Female			
Exposed cable size (cm)	30(or customer requirement)			
Connector position	Bottom			
Antenna size (mm)	Φ146*42			
Packing size (mm)	148*148*145			
Weight (kg)	≤0.3			
Radome material	ABS			
Radome color	White			
Operating humidity (%)	5～95			
Operating temperature (℃)	-40～60			
Application	Indoor			
Mounting	Fixed with nut			

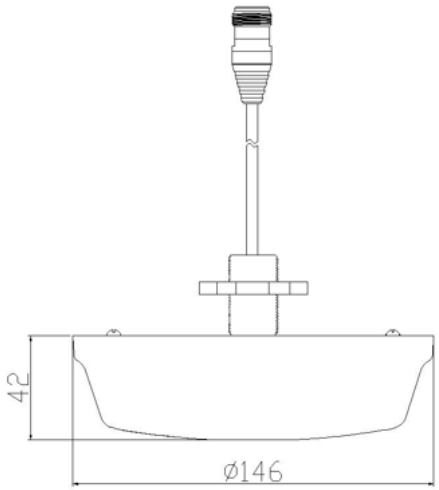
617～960MHz Typical pattern: **1710～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

617～960/1710～2700/3300～4200/4800～6000MHz 3.5/4/5/5dBi

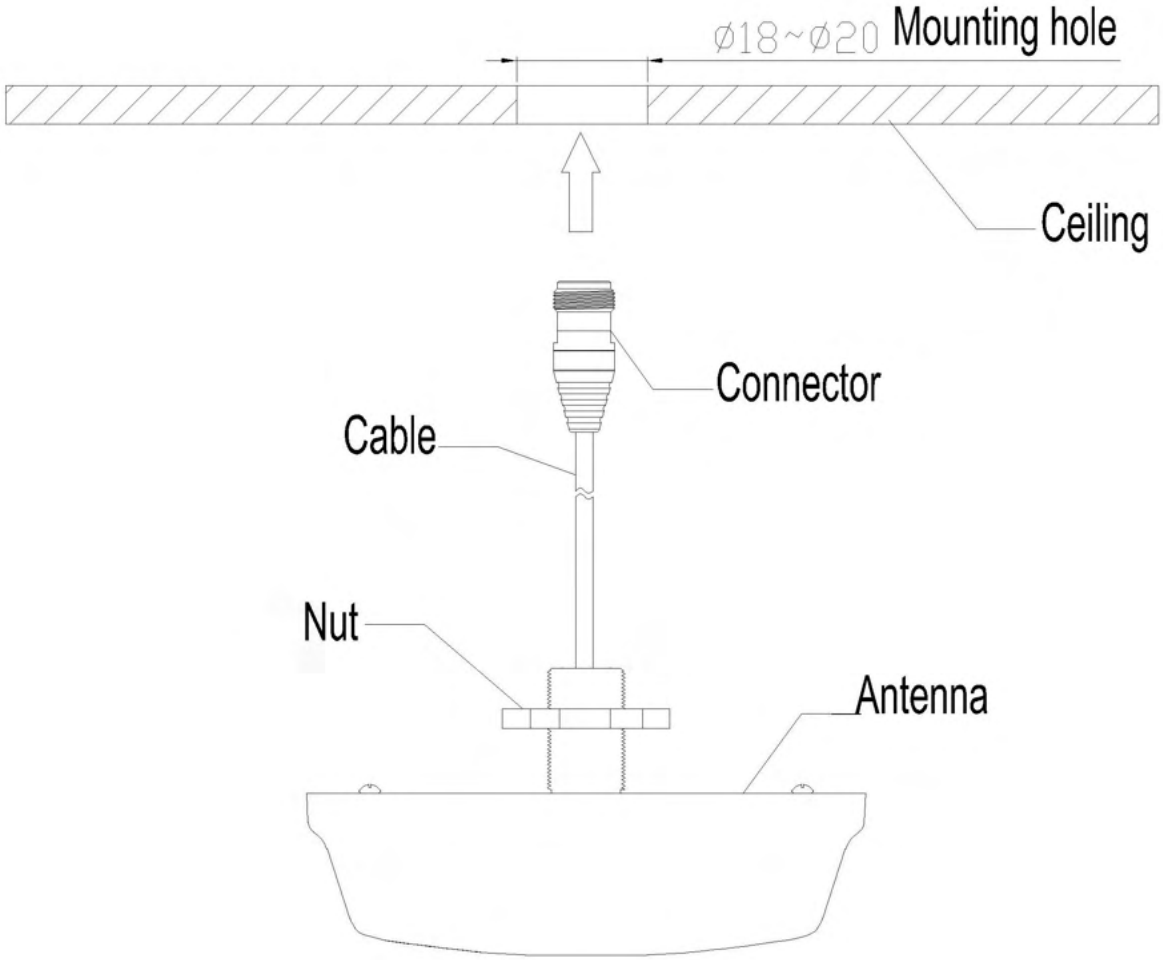
SISO Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



617～698/698～960/1695～2700/3300～4200/4800～6000MHz

4/4/5/6/7dBi Low PIM Omnidirectional ceiling antenna

TKLQJ-0660XTLA-M

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications					
Frequency range (MHz)	617～698	698～960	1695～2700	3300～4200	4800～6000
Polarization	Linear，Horizontal				
Typical Gain (dBi)	4	4	5	6	7
Horizontal beam width (°)	360，omnidirectional				
Typical Vertical beam width (°)	70	68	50	60	30
Impedance (Ω)	50				
VSWR	≤2.0		≤1.5		
Intermodulation IM3 (2×43dBm carrier)	/	≤-153 dBc	≤-153 dBc	/	/
Maximum power (W)	50				

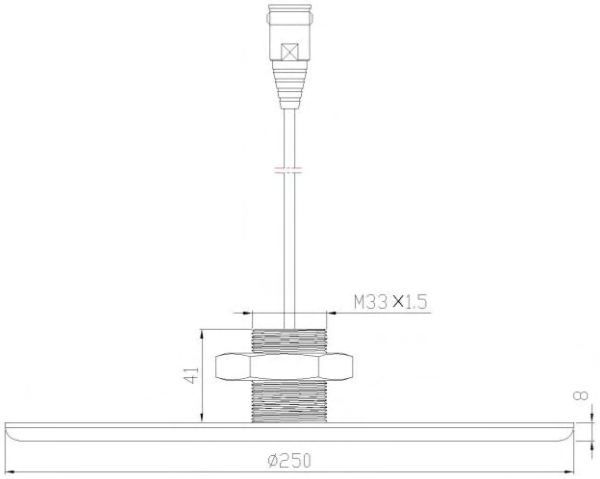
Mechanical specifications	
Connector	4.3-10 Female or N Female
Exposed cable size (cm)	30 or Customer specified
Connector position	Bottom
Antenna size (mm)	Φ250*8
Packing size (mm)	265*265*90
Weight (kg)	0.4
Radome material	ABS
Radome color	White（RAL 9003)
Operating humidity (%)	5～95
Operating temperature (℃)	-40～60
Application	Indoor
Mounting	Fixed with nut

617～960MHz Typical pattern: **1695～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

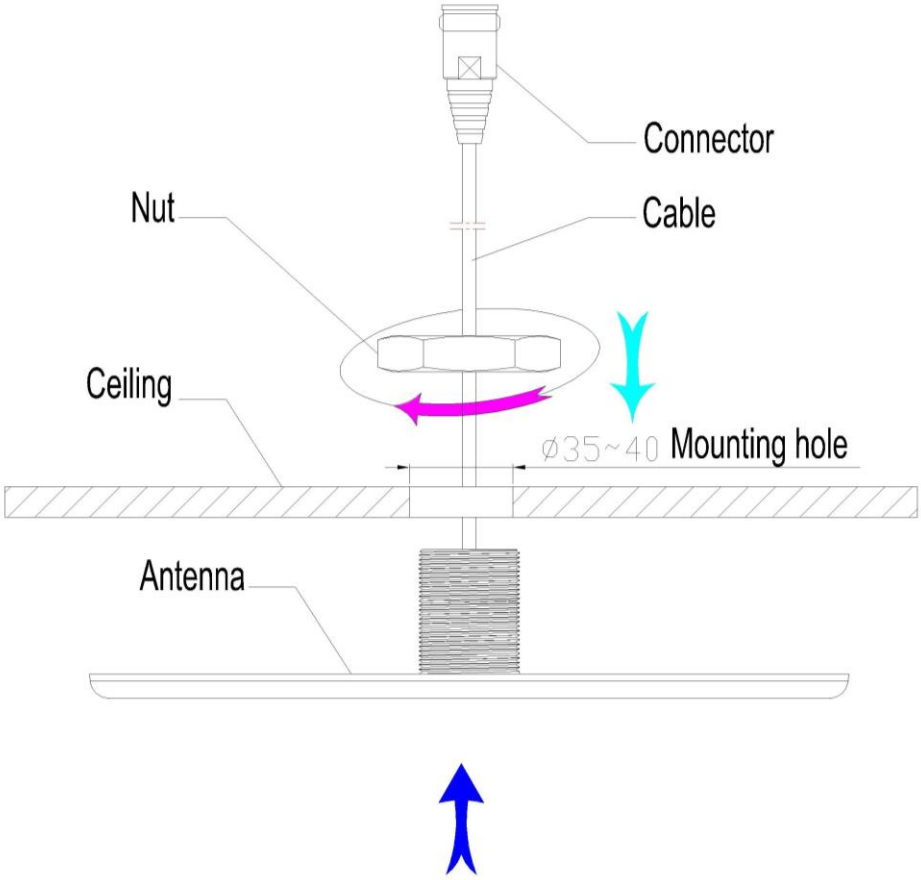
617～698/698～960/1695～2700/3300～4200/4800～6000MHz
4/4/5/6/7dBi Low PIM Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ35 - Φ40 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

NOTE:The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

698～960/1350～1550/1710～2700/3300～3800MHz
1.5/2.5/4/4dBi Low PIM Omnidirectional ceiling antenna

TKLQJ-0738XDQ-M

Application

Used in 2G/3G/4G/5G/WLAN system

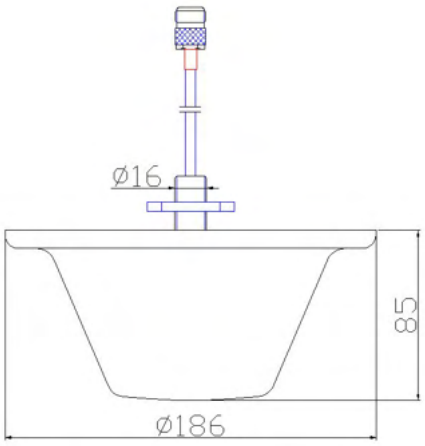
Electrical specifications				
Frequency range (MHz)	698-960	1350～1550	1710～2700	3300～3800
Polarization	Vertical			
Maximum Gain (dBi)	1.5	2.5	4	4
Horizontal beam width (°)	360			
Typical Vertical beam width (°)	85	70	55	28
Impedance (Ω)	50			
VSWR	≤1.7		≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Maximum power (W)	100			
Lighting protection	DC Ground			
Mechanical specifications				
Connector	4.3-10 Female			
Exposed cable size (cm)	20(or customer requirement)			
Connector position	Bottom			
Antenna size (mm)	φ186*85			
Packing size (mm)	150*150*175			
Weight (kg)	0.25			
Radome material	ABS UV Sterilized			
Radome color	White			
Operating humidity (%)	5～95			
Operating temperature (℃)	-40～70			
Application	Indoor			
Mounting	Fixed with nut			

698～960MHz Typical pattern: **1350～2700MHzTypical pattern:** **3300～3800MHzTypical pattern:**

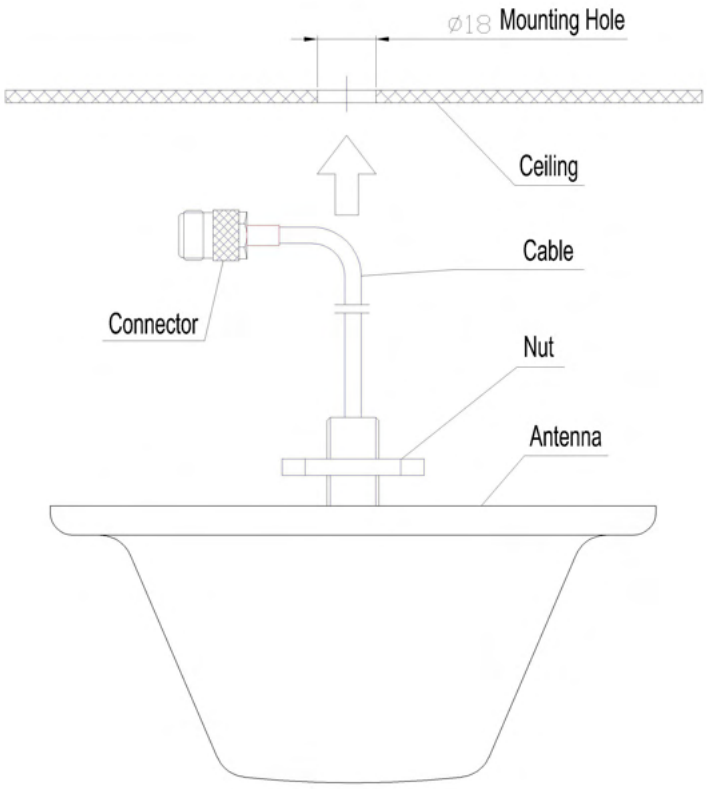
698～960/1350～1550/1710～2700/3300～3800MHz
1.5/2.5/4/4dBi　Low PIM Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ18 - Φ25 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

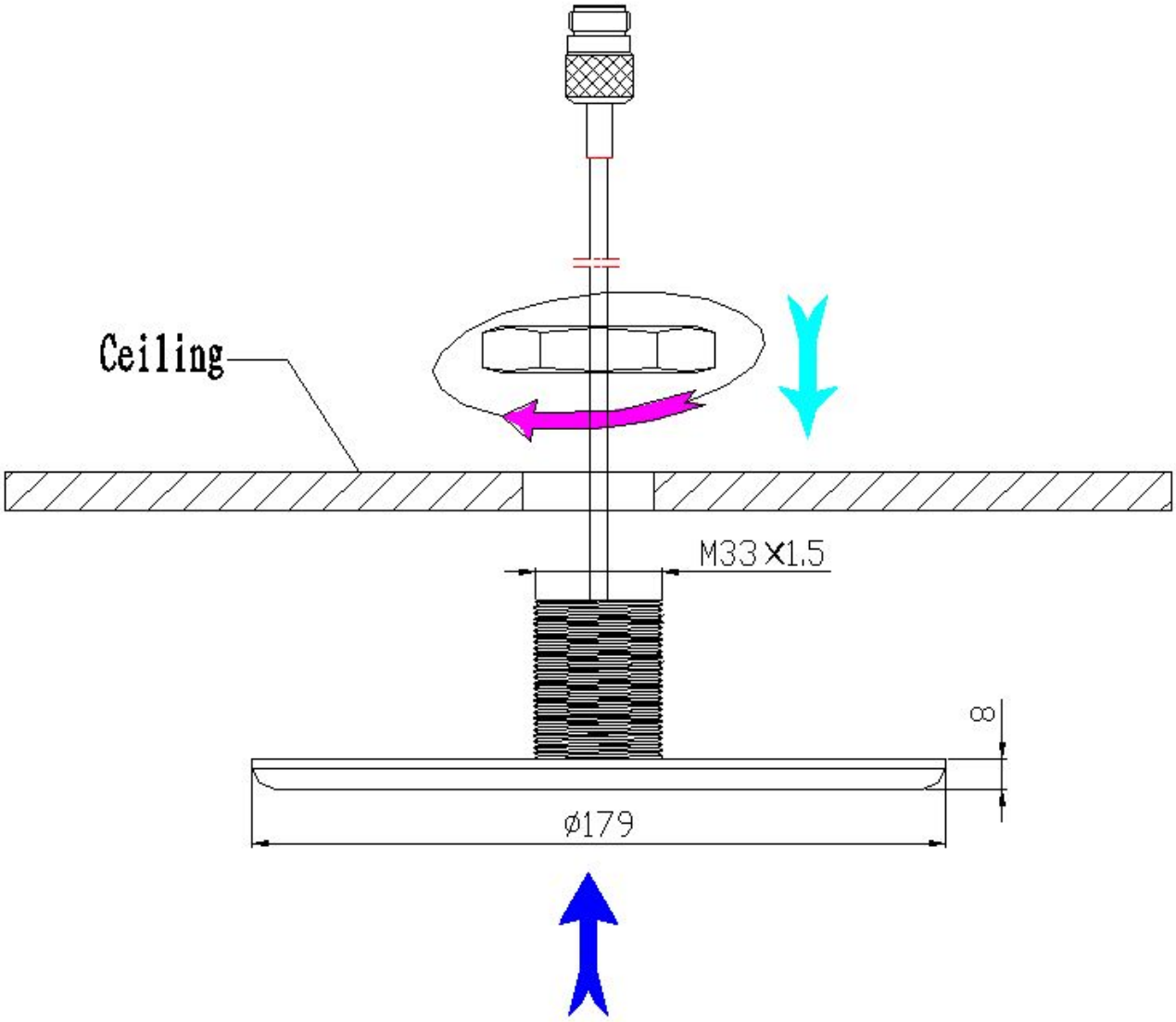
●Ultra Low Profile ●2G/3G/4G/5G ●Support current main popular communication system

Low PIMCeiling Mount Antenna			
Electrical specifications	**TKLQJ-0740XTLA-M**		
Frequency range (MHz)	698～960	1710～2700	3300～4000
Polarization	Linear，Horizontal		
Gain (dBi)（Max）	3	4	5
VSWR	≤1.5		
Azimuth beam width (°)	360，omnidirectional		
Impedance (Ω)	50		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum power (W)	50		

Mechanical specifications	
Connector	4.3-10 Female or N Female
Connector position	Bottom
Height/width/depth (mm)	Φ179×8
Packing size (mm)	195×195×75
Weight (g)	220±10
Radome material	ABS
Radome color	White（RAL 9003)
Operating humidity (%)	5~95
Operating temperature (℃)	-40~60
Mounting	Fixed with nut

Typical Patterns:

698~960MHz: **1710~2700MHz:** **3300~4000MHz:**



1. Drill a Φ35 - Φ40 hole on the ceiling
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

NOTE:The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

132～174/380～570/700～960MHz 1/1.5/3.5dBi SISO Omnidirectional Ceiling antenna

TKLQJ-01309XTLD

Application

Used in VHF/UHF/GSM system

Electrical specifications			
Frequency range (MHz)	132～174	380～570	700～960
Polarization	Linear，Horizontal		
Maximum Gain (dBi)	1	1.5	3.5
Horizontal beam width (°)	360		
Vertical beam width (°)	90	70	45
Impedance (Ω)	50		
VSWR	≤2.5	≤2.0	≤2.0
Maximum power (W)	25		

Mechanical specifications	
Connector	N Female
Customized Cable Length (cm)	50
Connector position	Bottom
Antenna size (mm)	390*345*12
Weight (kg)	≤0.55
Antenna color	White
Waterproof	IP65
Operating temperature (℃)	-40～60
Application	Indoor
Mounting	Screw

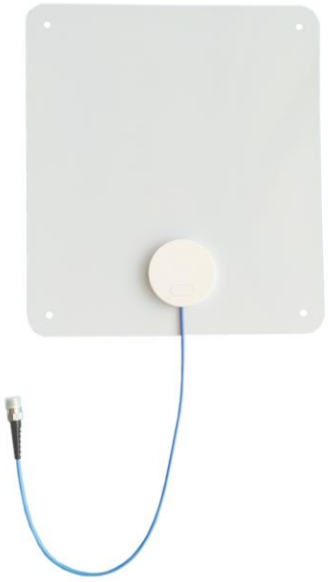
Attention!

VSWR: Antenna mounted on 60cm x 60cm non-metallic surface；Please do not mount the antenna directly on metal surface；

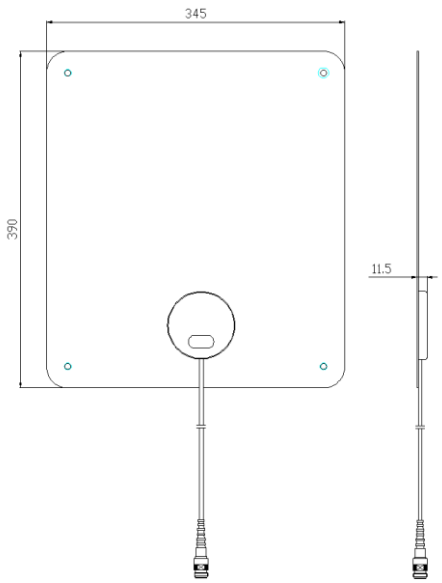
132～174MHz Typical pattern: **380～570MHz Typical pattern:** **700～960MHz Typical pattern:**

132～174/380～570/700～960MHz 1/1.5/3.5dBi
SISO Omnidirectional Ceiling antenna

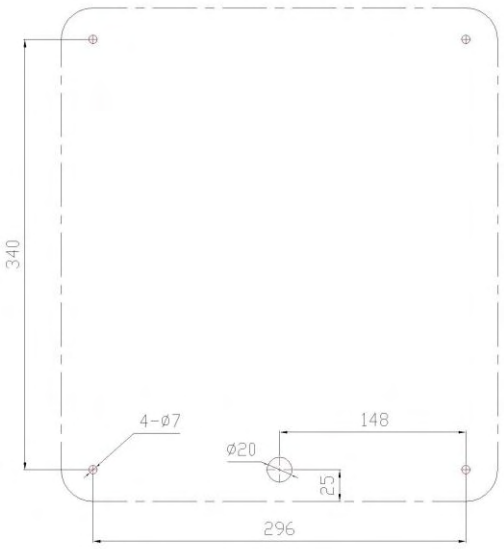
Product pictures



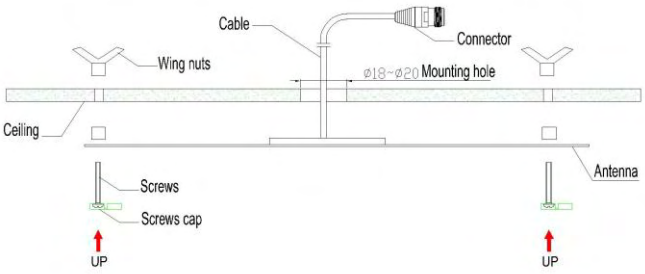
Product size



Installation Sketch



Mounting hole size



350～520/617～960/1695～2700/3300～4200/4800～6000MHz
4/4/6/7/7dBi SISO Omnidirectional ceiling antenna

TKLQJ-03560XTLH-M

Application

Used in 2G/3G/4G/5G/WLAN system

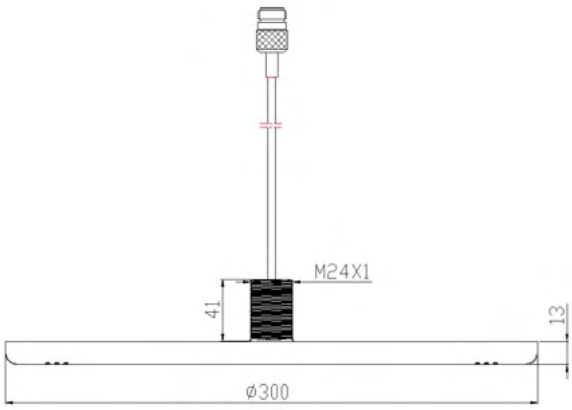
Electrical specifications					
Frequency range (MHz)	350～520	617～960	1695～2700	3300～4200	4800～6000
Polarization	Linear or Horizontal				
Peak Gain (dBi)	4	4	6	7	7
Horizontal beam width (°)	360，omnidirectional				
Typical Vertical beam width (°)	120	90	80	50	40
Impedance (Ω)	50				
VSWR	≤1.8	≤1.5			
Intermodulation IM3 (2×43dBm carrier)	/	≤-153 dBc	≤-153 dBc	≤-153 dBc	/
Maximum power (W)	50				
Mechanical specifications					
Connector	N Female or 4.3-10 Female				
Exposed cable size (cm)	30				
Connector position	Bottom				
Antenna size (mm)	Φ300*13				
Packing size (mm)	325*325*88				
Weight (kg)	≤0.55				
Radome material	ABS				
Radome color	White（RAL 9003)				
Operating humidity (%)	5～95				
Operating temperature (℃)	-40～60				
Application	Indoor				
Mounting	Fixed with nut				

350～960MHz Typical pattern: **1695～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

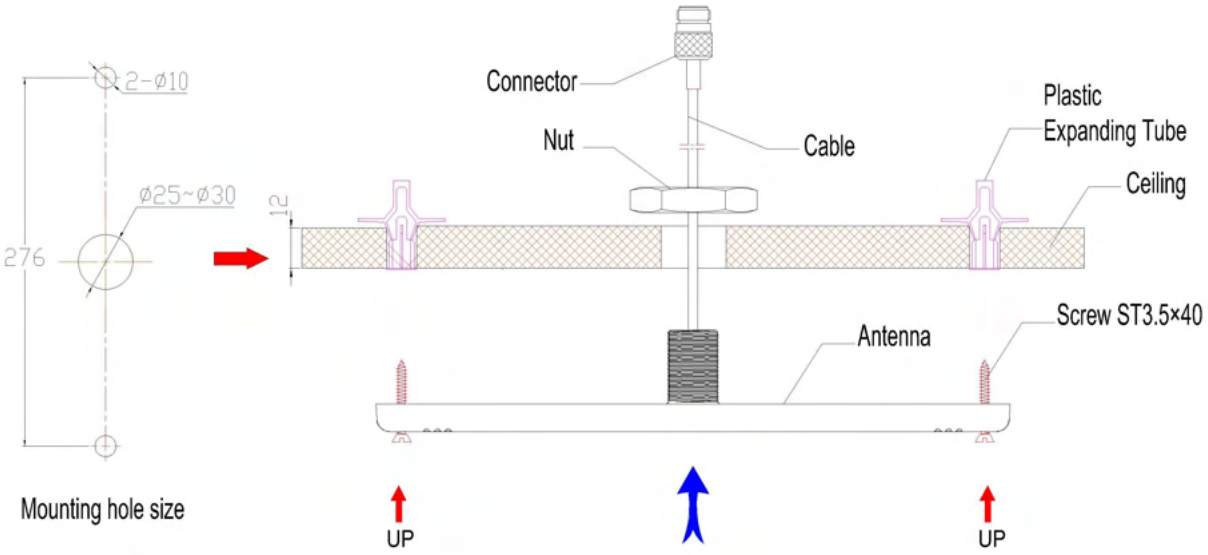
350～520/617～960/1695～2700/3300～4200/4800～6000MHz
4/4/6/7/7dBi SISO Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ25 - Φ30 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

NOTE: Please do not install directly on the metal area to avoid performance hit.

617～698/698～960/1695～2700/3300～4200/4800～6000MHz 4/4/5/6/5dBi MIMO Omnidirectional ceiling antenna

TKLQJ-D0660XTLA-M

Application

Used in 2G/3G/4G/5G/WLAN system

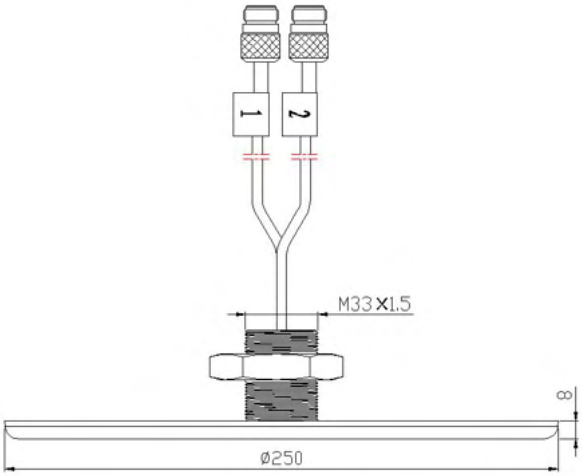
Electrical specifications					
Frequency range (MHz)	617～698	698～960	1695～2700	3300～4200	4800～6000
Polarization	2*Linear,Horizontal				
Typical Gain (dBi)	4	4	5	6	5
Horizontal beam width (°)	360，omnidirectional				
Typical Vertical beam width (°)	70	68	50	30	30
Isolation (dB)	≥18	≥18	≥20	≥30	≥30
Impedance (Ω)	50				
VSWR	≤1.8	≤1.7	≤1.7	≤1.8	≤1.9
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc	≤-153 dBc	≤-153 dBc	≤-153 dBc	/
Maximum power (W)	50				
Mechanical specifications					
Connector	2*4.3-10 Female or 2*N Female				
Exposed cable size (cm)	30(or customer requirement)				
Connector position	Bottom				
Antenna size (mm)	Φ250*8				
Packing size (mm)	265*260*88				
Weight (kg)	0.4				
Radome material	ABS				
Radome color	White（RAL 9003)				
Operating humidity (%)	5～95				
Operating temperature (℃)	-40～60				
Application	Indoor				
Mounting	Fixed with nut				

617～960MHz Typical pattern: **1695～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

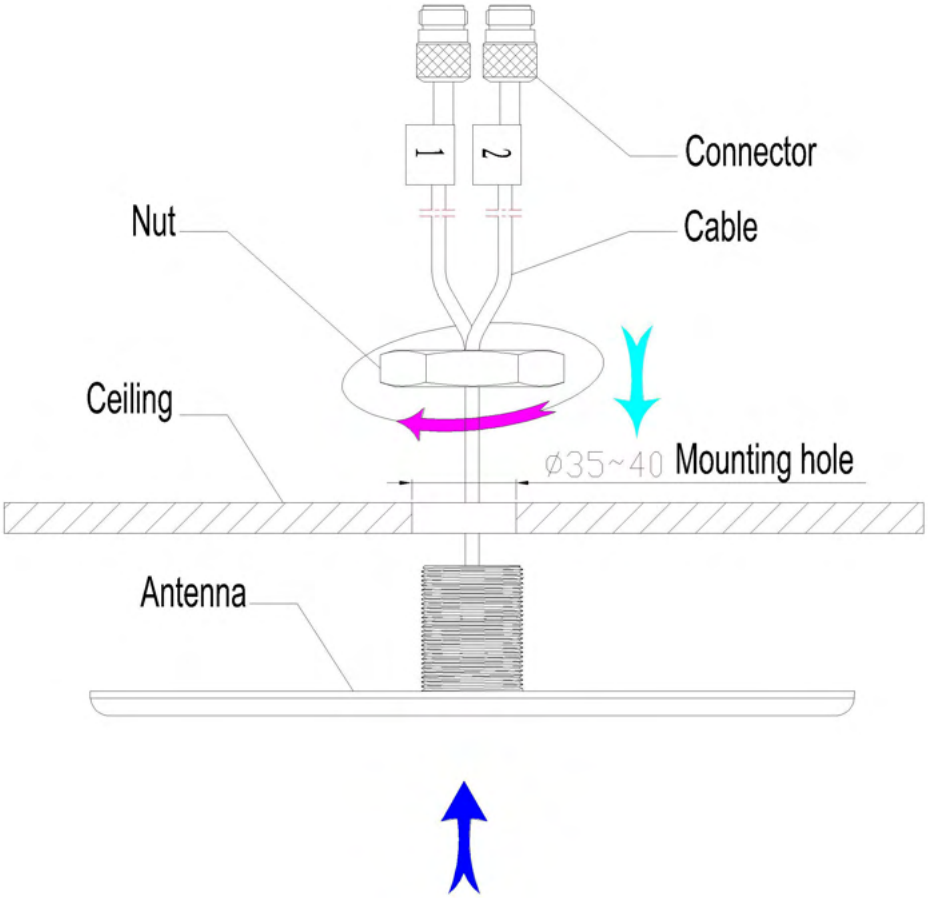
617～698/698～960/1695～2700/3300～4200/4800～6000MHz
4/4/5/6/5dBi MIMO Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ35 - Φ40 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

NOTE:The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

617～960/1350～1550/1695～2700/3300～4200/4800～7125MHz 4/4/5/6/5dBi MIMO Omnidirectional ceiling antenna

TKLQJ-D0672XTLA-M

Application

Used in 2G/3G/4G/5G/WLAN system

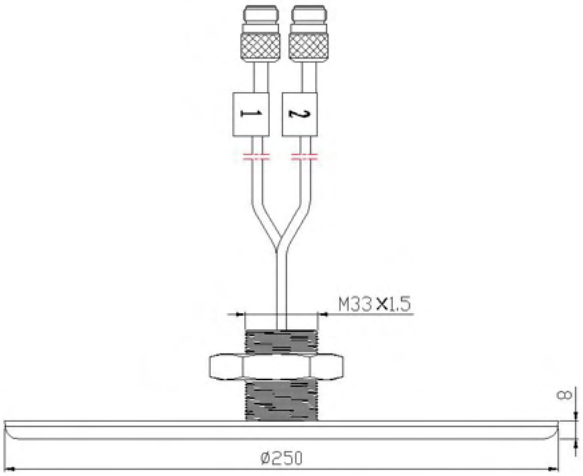
Electrical specifications					
Frequency range (MHz)	617～960	1350～1550	1695～2700	3300～4200	4800～7125
Polarization	2*Linear,Horizontal				
Typical Gain (dBi)	4	4	5	6	5
Horizontal beam width (°)	360，omnidirectional				
Typical Vertical beam width (°)	70	60	50	30	30
Isolation (dB)	≥18	≥17	≥20	≥30	≥30
Impedance (Ω)	50				
VSWR	≤1.9	≤2.0	≤1.9	≤1.9	≤2.0
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc	/	≤-153 dBc	≤-153 dBc	/
Maximum power (W)	50				
Mechanical specifications					
Connector	2*4.3-10 Female or 2*N Female				
Exposed cable size (cm)	30				
Connector position	Bottom				
Antenna size (mm)	Φ250*8				
Packing size (mm)	265*260*88				
Weight (kg)	0.4				
Radome material	ABS				
Radome color	White（RAL 9003)				
Operating humidity (%)	5～95				
Operating temperature (℃)	-40～60				
Application	Indoor				
Mounting	Fixed with nut				

617～960MHz Typical pattern: **1350～2700MHzTypical pattern:** **3300～7125MHzTypical pattern:**

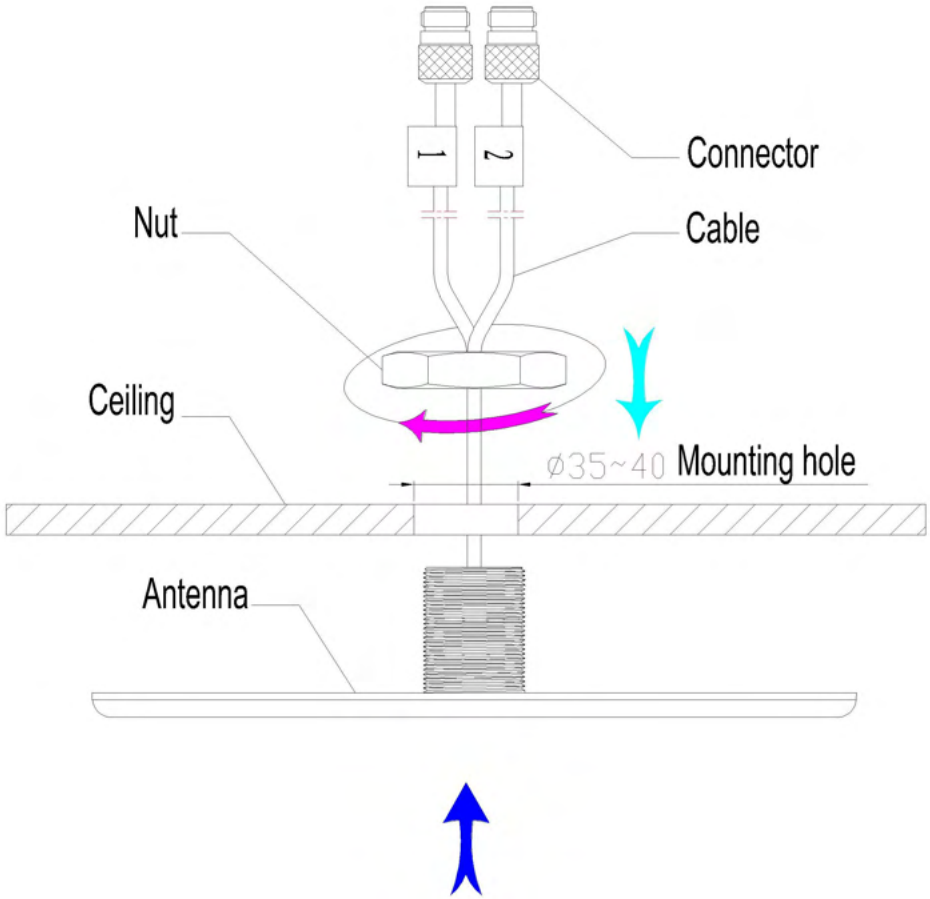
617～960/1350～1550/1695～2700/3300～4200/4800～7125MHz
4/4/5/6/5dBi MIMO Omnidirectional ceiling antenna

Product pictures

Product size



Installation Sketch



1. Drill a Φ35 - Φ40 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

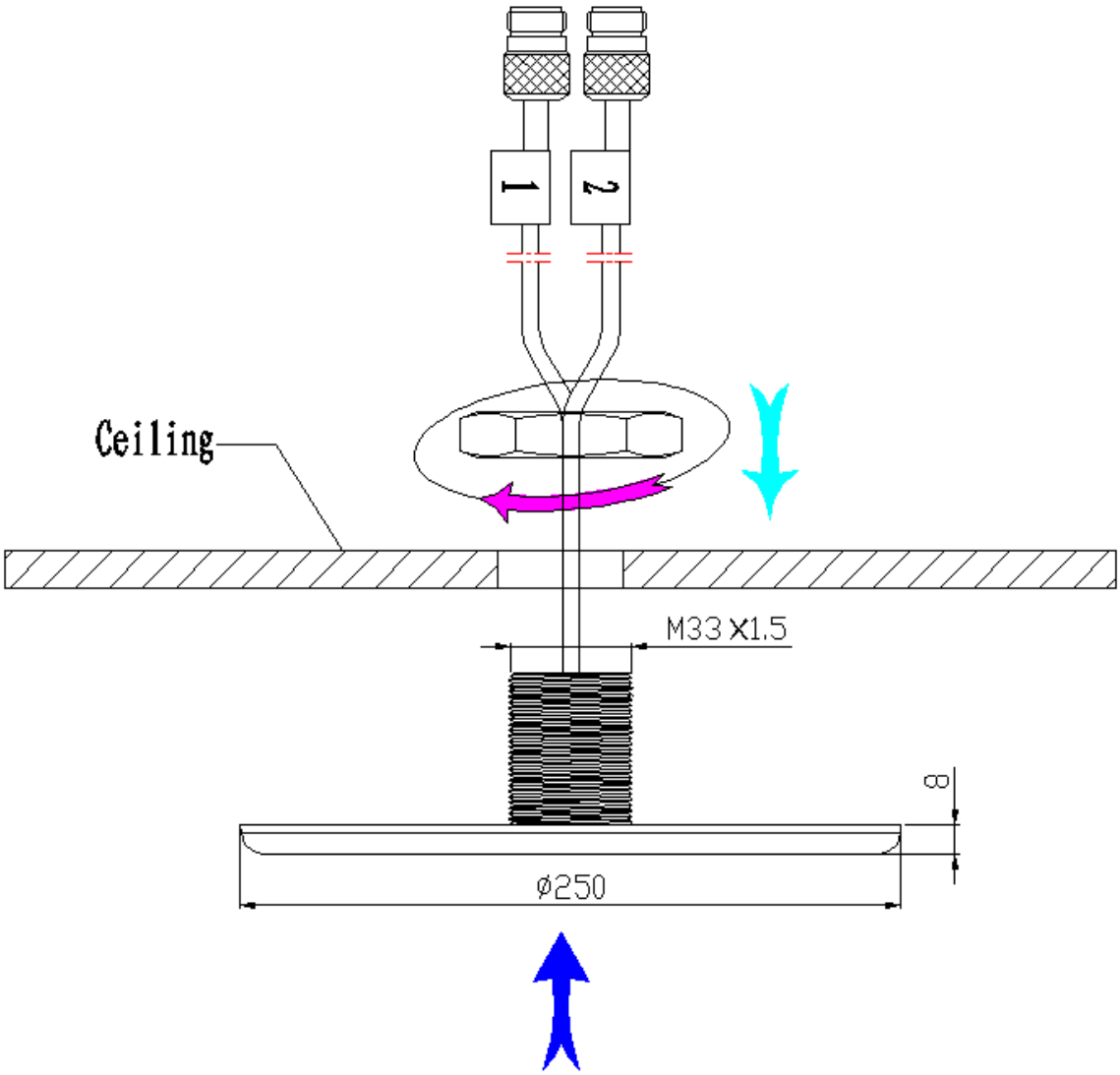
NOTE:The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

●Ultra Low Profile ●Support current main popular communication system

Low PIMCeiling Mount Antenna			
Electrical specifications	**TKLQJ-D0740XTLA-M**		
Frequency range (MHz)	698～960	1710～2700	3300～4000
Polarization	Linear，Horizontal		
Gain (dBi)（Max）	2@3	2@4	2@5
Isolation (dB)	≥13	≥20	≥25
VSWR	≤1.8	≤1.5	
Azimuth beam width (°)	360，omnidirectional		
Impedance (Ω)	50		
Intermodulation IM3 (2×43dBm carrier)	≤-150dBc		
Maximum power (W)	50		
Mechanical specifications			
Connector	2@4.3-10 Female or N Female		
Connector position	Bottom		
Height/width/depth (mm)	Φ250×8		
Packing size (mm)	265×265×90		
Weight (g)	400±10		
Radome material	ABS		
Radome color	White（RAL 9003)		
Operating humidity (%)	5-95		
Operating temperature (℃)	-40~60		
Mounting	Fixed with nut		

Typical Patterns:

698~960MHz: **1710~2700MHz:** **3300~4000MHz:**



1. Drill a Φ35 - Φ40 hole on the ceiling
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

NOTE:The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

617～960/1710～2700/3300～4000MHz 3/4/5dBi Low PIM MIMO Omnidirectional ceiling antenna

TKLQJ-D0740XTLC-M

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications			
Frequency range (MHz)	617～960	1710～2700	3300～4000
Polarization	2*Linear，Horizontal		
Gain (dBi)	3	4	5
Horizontal beam width (°)	360，omnidirectional		
Typical Vertical beam width (°)	70	50	45
Isolation (dB)	≥25	≥30	≥40
Impedance (Ω)	50		
VSWR	≤1.8		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Maximum power (W)	50		

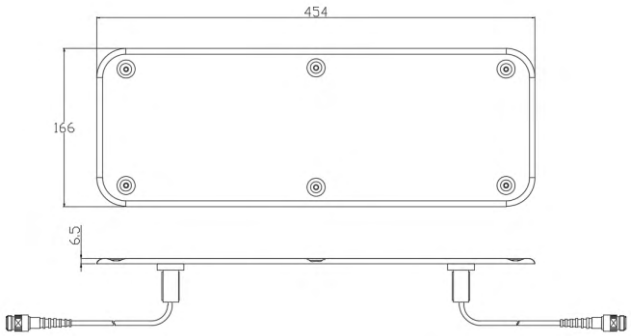
Mechanical specifications	
Connector	2*4.3-10 Female or 2* N Female
Exposed cable size (cm)	50(or Customized)
Connector position	Bottom
Antenna size (mm)	454*166*6.5
Packing size (mm)	475*85*192
Weight (kg)	≤0.4
Radome material	PS
Radome color	White
Operating humidity (%)	5～95
Operating temperature (℃)	-40～60
Application	Indoor
Mounting	Nut or Screw

617～960MHz Typical pattern: **1710～2700MHzTypical pattern:** **3300～4000MHzTypical pattern:**

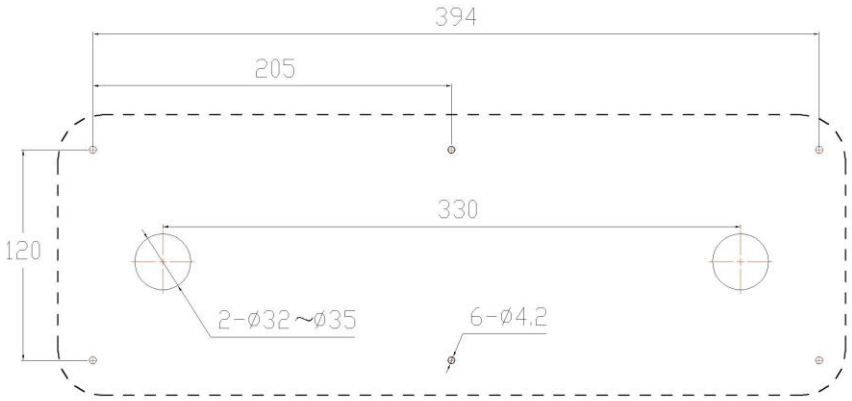
617～960/1710～2700/3300～4000MHz 3/4/5dBi
Low PIM MIMO Omnidirectional ceiling antenna

Product pictures

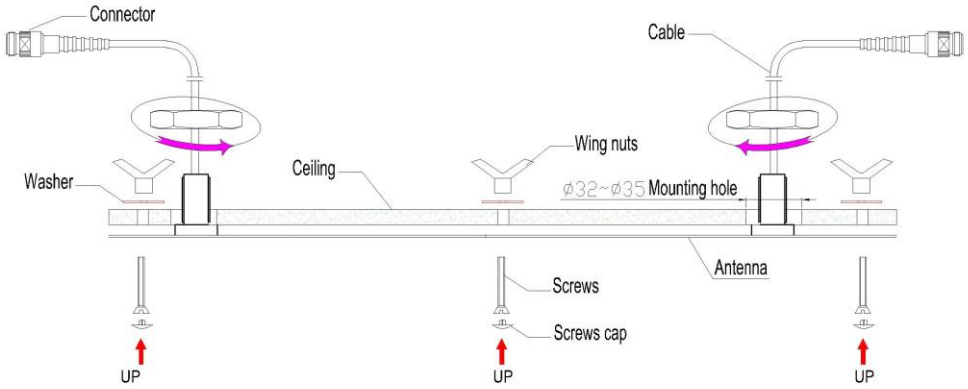
Product size



Installation Sketch



Mounting hole size



1. Drill a Φ32- Φ35 hole on the ceiling.
2. Install the antenna as the following picture shows then tighten the bolts.
3. Connect the RF jumper to antenna connector.

Attention!

The antenna pleases not to install on the big area metals, in order to prevent influence antenna result.

IV. WIFI Directional Panel Antenna

2400-2500/5150-5850MHz 20 /90° 10dBi Antenna

KKLDP2-D2458BFE-C

Application

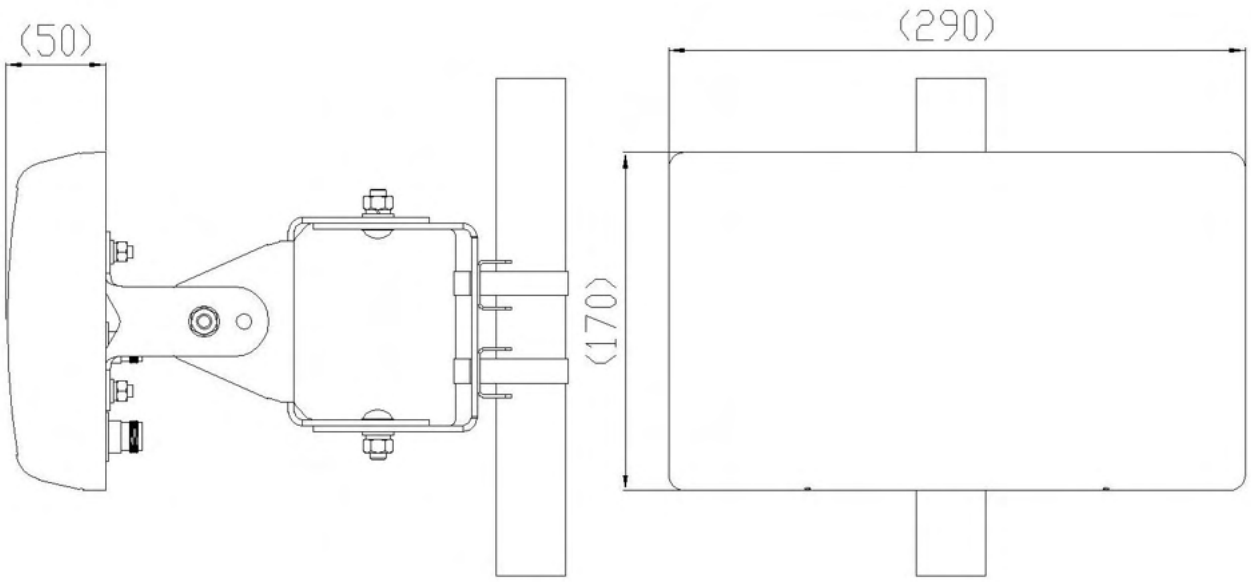
2.4/5GHz Directional Antenna

Electrical Specifications	
Frequency Band (MHz)	2400-2500 /5150-5850
Polarization	±45°
Gain (dBi)	10
Vertical Plane 3-dB BW(°)-Typical	90±15
Horizontal Plane 3-dB BW(°)-Typical	20±5
Front-to-Back Ratio(dB)	≥15
VSWR	⩽2.0
Isolation(dB)	⩾20
Impedance (Ω)	50
Maximum power(W)	50

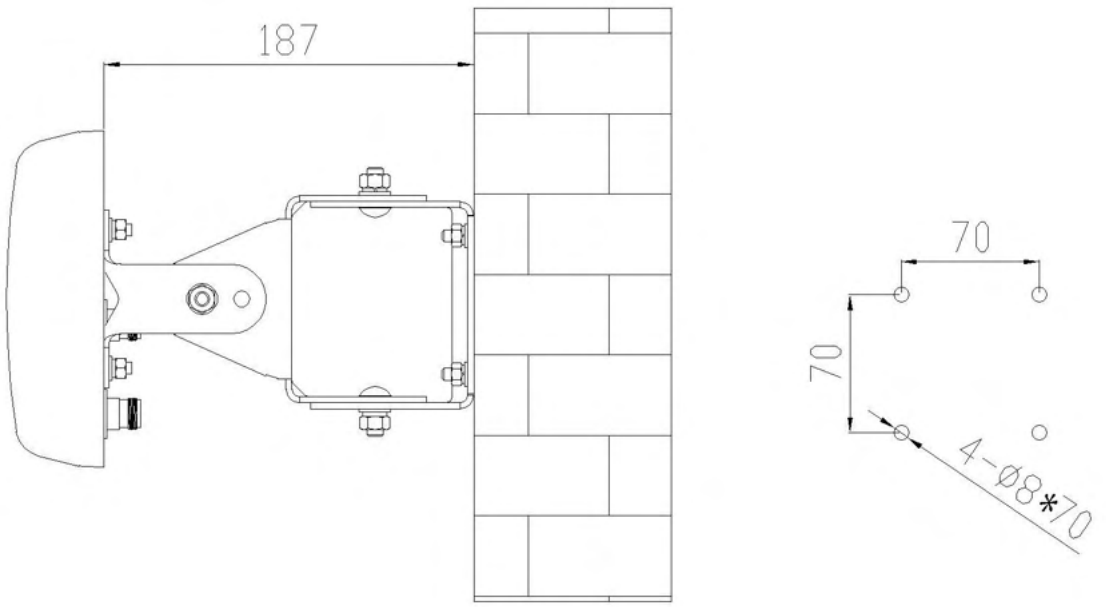
Mechanical Specifications	
Connector Type	2*N Type Female
Connector Position	Back
Radome Material Color	ABS / White
Dimensions(mm)	290*170*50
Antenna /Bracket Weight(kg)	0.7 /0.7
Operating Temperature（℃）	-40 to +60
Mounting Type	JM-VB6 （Pole support Φ34-114mm）/and Wall Mount

Antenna Appearance

Installation Sketch (Pole mount)



Installation Sketch (Wall mount)

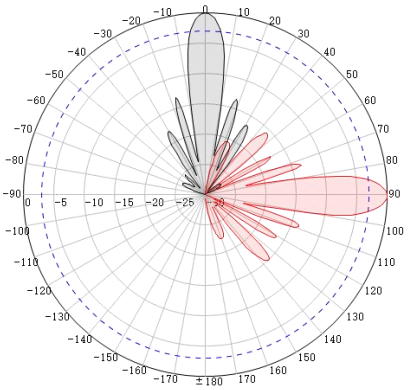
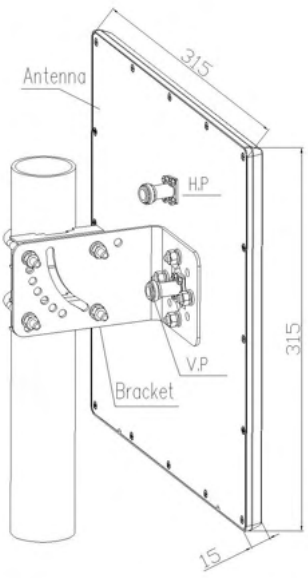


● 2-Port Antenna

● 4900-6100MHz
●Wireless data transmission system

KKLDP2-D4961E23BWA

Electrical Specifications			
Frequency Range (MHz)	4900-5150	5150-5500	5500-6100
Polarization	Vertical and Horizontal		
Gain(dBi)	20.5	22	23
Horizontal 3dB Beam_width(°)	12	11	10
Vertical 3dB Beam_width(°)	12	11	10
Front-to-Back Ratio (dB)	≥28		
VSWR	≤2.0		
Isolation (dB)	≥28		
Impedance (Ω)	50		
Maximum Power (W)	50		
Lighting protection	DC ground		
Mechanical Specifications			
Connector	2*N Female		
Connector Position	Back		
Dimensions(mm)	315*315*15		
Radome/Color	ABS (white)		
Antenna Weight(Kg)	1.0		
Waterproof level	IP67		
Operating Temp(° C)	-40°C to +60°C		
Wind resistance(m/s)	55		
Salt spray resistance	JM-TA ,Support pole Φ30 to 50mm		

Typical plane pattern	Product Picture	Installation Sketch
		

5150-5850MHz 25° 17dBi Directional Small Plate Antenna

KKLDP2-D5158R17BWB

Application

Two-Port WI-FI Directional Small Plate Antenna，Structural Reliability

Electrical Specifications

Frequency Band(MHz)	5150-5850
Polarization	Vertical + Horizontal
Gain (dBi)	17
Horizontal Plane 3-dB BW(°)	25
Vertical Plane 3-dB BW(°)	14
Front-to-Back Ratio(dB)	≥25
Insolation(dB)	≥23
Impedance (Ω)	50
VSWR	≤2.0
Maximum power(W)	100
Lighting protection	DC ground

Mechanical Specifications

Connector Type	2*N Type male
Connector Position	Back
Dimensions(mm)	260*190*30
Antenna Weight(kg)	0.5
Bracket Weight(kg)	0.4
Material For Radome	ABS
Radome Color	White
Operating Temperature（℃）	-40-+60
Wind Load Frontal(m/s)	60
Mounting Pole Diameter(mm)	D30-50
Mounting Type/Mounting Material	JM-TA

5150-5850MHZ

Horizontal Radiation

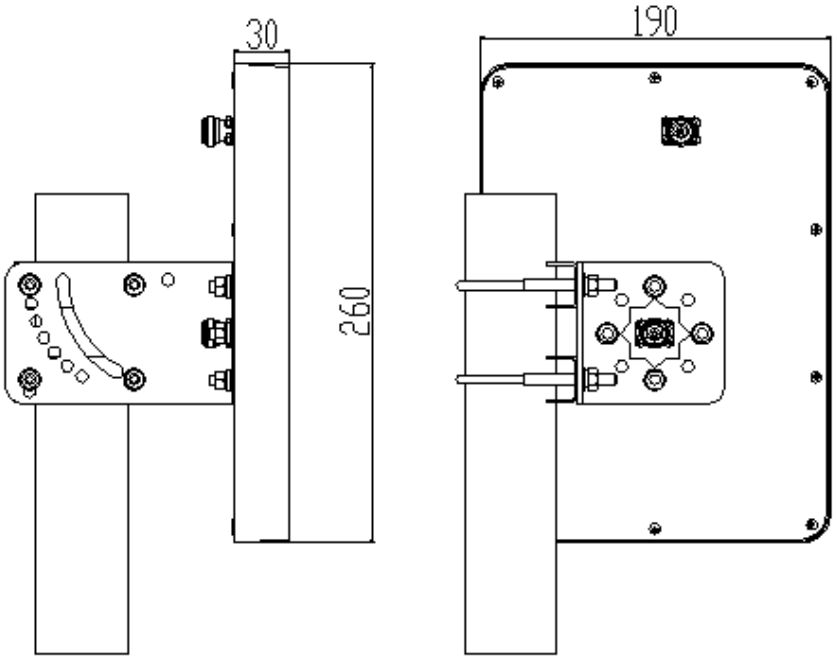
5150-5850MHZ

Vertical Radiation

5150-5850MHz 25° 17dBi Directional Small Plate Antenna

Antenna Appearance

Installation Diagram



2400-2500/5150-5850MHz 12dBi Directional Antenna

KKLDP2-V2458G12BFLB

Application

Wi-Fi Directional Antenna

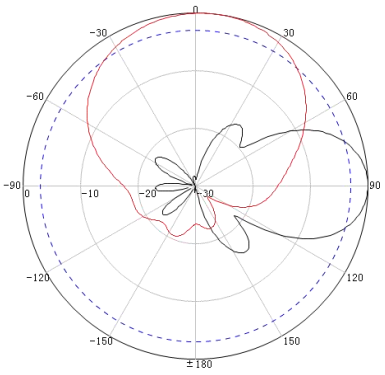
Electrical specifications

Frequency range (MHz)	2400-2500	5150-5850
Polarization	VP	VP
Gain (dBi)	12	12
Nominal Horizontal Plane 3-dB BW(°)	75	65
Nominal Elevation Plane 3-dB BW(°)	30	30
Nominal Front-to-back ratio (dB)	≥20	≥25
Impedance (Ω)	50	50
VSWR	≤1.5	≤2.0
Maximum power (W)	50	50

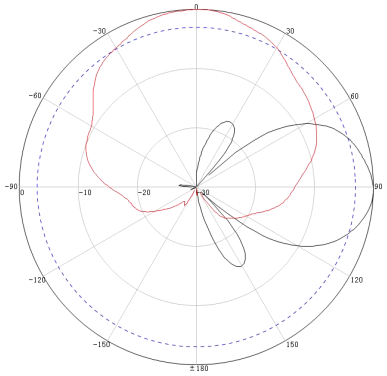
Mechanical specifications

Connector	2*N-Female
Connector position	Back
Antenna size (mm)	190*190*31
Packing size (mm)	255*210*85
Antenna Weight (kg)	0.45
Bracket Weight(Kg)	0.25
Radome material	ABS
Radome color	White
Operating temperature (℃)	-40～+60
Rated wind velocity (m/s)	36.9
Suitable pole diameter (mm)	Φ30-Φ50
Mounting kit	JM-T4A

2400-2500MHZ

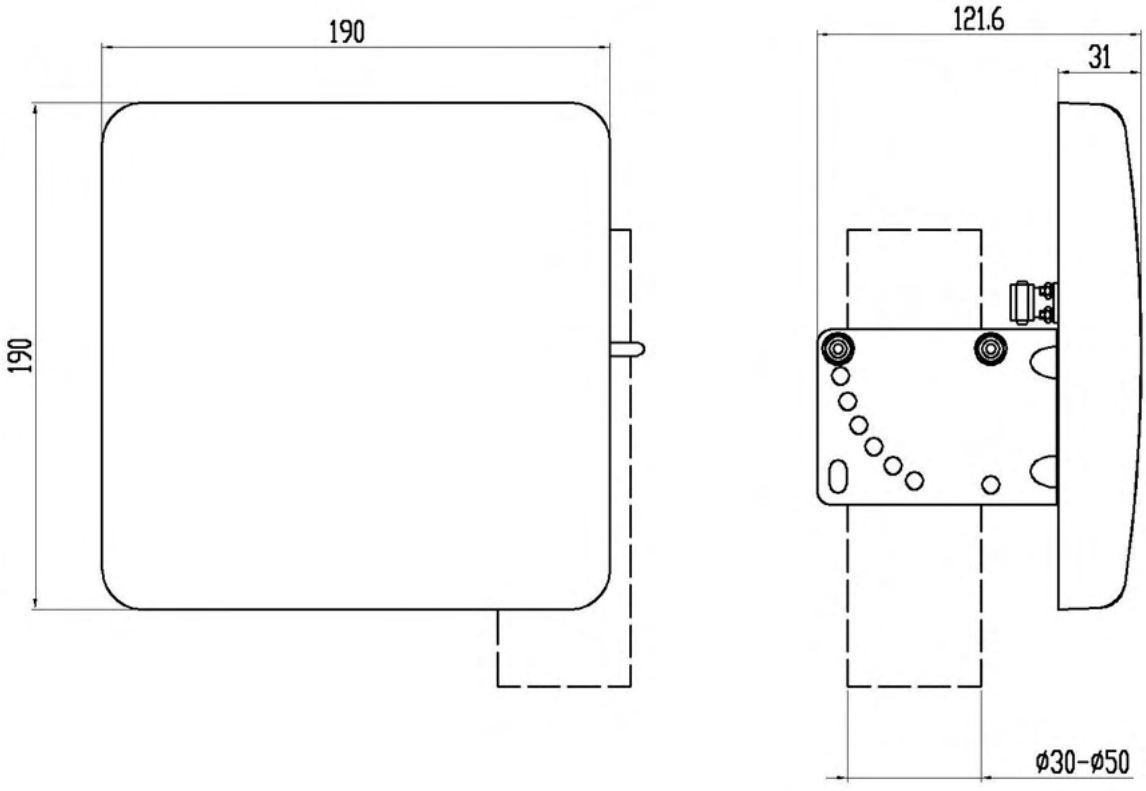


5150-5850MHZ



Antenna Picture Sketch

Installation Sketch



2400-2500/5150-6000/6000-7125MHz
Dual polarization Flat Antenna

KKLDP4-2470G6BKR-C

Application

- 2.4GHz to 2.5GHz/5.15GHz to 7.125GHz band
- Three band WiFi7 system
- Support the 802.11a/b/g/n/ac/ax/be,MIMO

Electrical Specifications			
Frequency Band(MHz)	2400-2500	5150-6000	6000-7125
Polarization	Vertical		
Peak Gain(dBi) -with cable	6	6	6
Typical Horizontal Plane 3-dB BW(°)	60	45	35
Typical Vertical Plane 3-dB BW(°)	60	40	30
VSWR	≤2.0		
Isolation(dB)	≥30		
F/B Ratio(dB)	≥20		
Impedance (Ω)	50		
Max Power(W)	50		

Mechanical Specifications	
Connector Type	4*N male
Connector Position	Back /Exposed RG58 Cable 920±10(mm)
Radome Material	ABS
Radome Color	White
Dimensions(mm)	260*260*30
Antenna Weight(g)	Antenna 1.0 Bracket 0.5
Operation Temperature range(°)	-40 to +60
Rated Wind Velocity (m/s)	55
Mounting Type	Mast and Wall Mounting
Bracket	JM-VB17
Mast /Wall Diameter-mm	Support pole Φ30 to 50 /Wall hole 57*57mm@M6*60mm expansion bolts

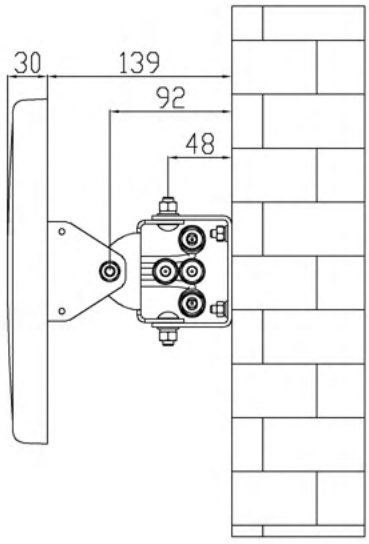
Radiation pattern 2.4GHz

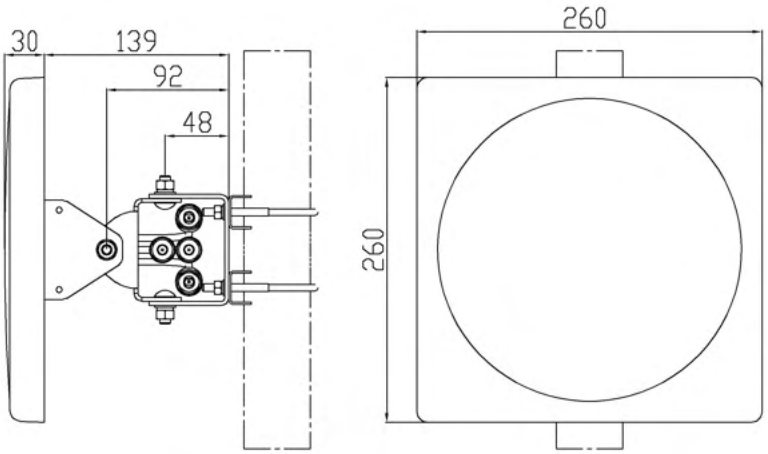
Radiation pattern 5/6GHz

2400-2500/5150-6000/6000-7125MHz
Dual polarization Flat Antenna

Product Picture

Installation Sketch





2400-2500/5150-5950/6000-7125MHz 6/6/6dBi Directional Antenna

KKLDP8-V2470J6BFE

Application

Used in WLAN network system

Electrical specifications			
Frequency range (MHz)	2400-2500	5150-5950	6000-7125
Polarization	Vertical		
Gain (dBi)	6	6	6
Electrical Downtilt (°)	0		
Horizontal Half-power beam width (°)	100	120	120
Vertical Half-power beam width (°)	70	60	45
Front-to-back ratio (dB)	≥15	≥15	≥15
Isolation (dB)	≥18	≥25	≥25
Impedance (Ω)	50		
VSWR	≤2.0		
Maximum power (W)	50		

Mechanical specifications	
Connector	8*RP-TNC Male
Connector position	Bottom
Exposed cable size (cm)	92±2
Height/Width/Depth (mm)	290*170*50
Antenna Weight (kg)	1.1
Radome Material	ABS
Radome Color	White
Mechanical Tilt(°)	−30～+30
Operating Temperature (℃)	-40～+65
Mounting Options	Pole or Wall Mounting
Rated Wind Velocity (m/s)	40
Suitable Pole Diameter (mm)	Φ30-Φ50
Mounting Kit	JM-R3

Radiation pattern

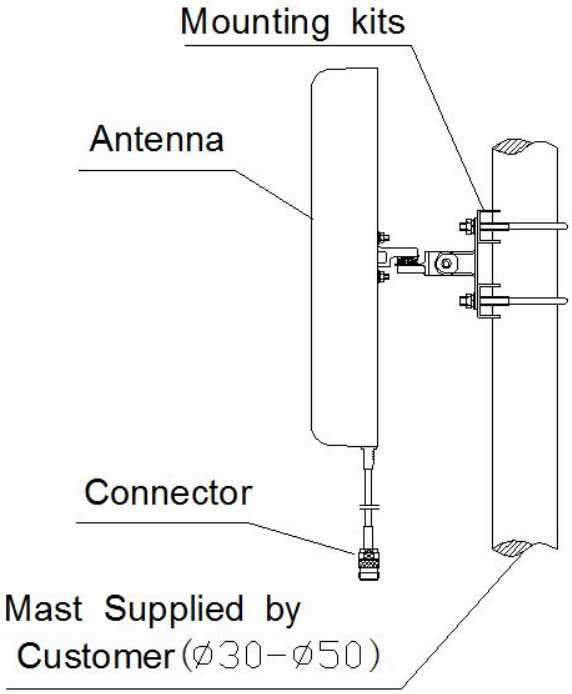
2400～2500MHz **5150～5950MHz** **6000～7125MHz**

2400-2500/5150-5950/6000-7125MHz 6/6/6dBi Directional Antenna

Appearance

Product Picture

Installation Sketch



4.9~6.1GHz 23dBi Directional Antenna

KKLDP-4958E23BWA

Application

High Gain WIFI Directional Antenna
Land Public safety system
Client / Bridge Antenna

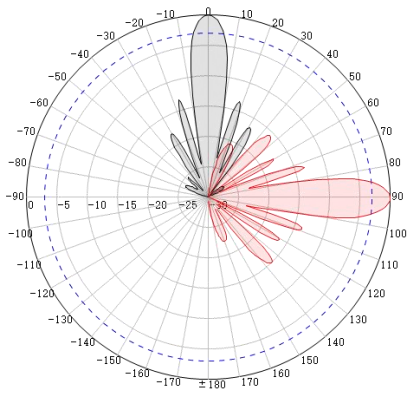
Electrical specifications

Frequency Range (MHz)	4900-5500	5500-6100
Peak Gain (dBi)	22	23
Polarization	Vertical	
Horizontal Beam Width (°)	11.5	10.5
Vertical Beam Width (°)	11.5	10.5
Nominal Front-to-Back Ratio (dB)	≥28	
VSWR	≤2.0	
Impedance (Ω)	50	
Maximum Power (W)	50	

Mechanical specifications

Connector	1*N Female
Height/Width/Depth (mm)	315*315*15
Weight (kg)	Antenna 1.1 Bracket 0.45
Radome Material	ABS
Radome Color	White
Operating Temperature (℃)	-40 /+60
Mounting Options	Pole Mounting
Rated Wind Velocity (m/s)	60
Ingress Protection	IP67
Suitable Pole Diameter (mm)	Φ30 to 50
Mounting Kit	JM-TA

Typical Pattern **Radome Appearance** **Installation Sketch**



2400-2500MHz/5150-5850MHz MIMO Flat Directional Antenna

TKLDJ-2458BGT14*4A

Application

Support 2.4-2.5GHz/5.15GHz-5.85GHz band frequency operation | Support the 802.11ax Directional coverage | Four-connector structure, Dual

Electrical specifications

Frequency Range (MHz)	2400-2500	5150-5850
Polarization	Vertical	
Gain (dBi)	13	14
Nominal Horizontal Beam Width (°)	45	35
Nominal Vertical Beam Width (°)	35	35
Front to Back Ratio(dB)	≥20	≥25
Isolation(dB)	≥28	
Impedance (Ω)	50	
VSWR	≤2.0	
Maximum Power (W)	50	

Mechanical specifications

Connector	4*N Female
Height/Width/Depth (mm)	380*380*33
Packing Size (mm)	440*440*140
Weight (kg)	1.7(without bracket)
Radome Material	UVABS
Radome Color	White
Operating Temperature (℃)	-40/+70
Suitable Pole Diameter (mm)	φ35 - φ75
Application	Indoor/Outdoor
Mounting	JM-2400BZ1

2.4GHz Typical Pattern **5GHz Typical Pattern** **Product Picture**

V. WIFI Omni-directional Antenna

2.4/5/6GHz 4/6/6 dBi Omni Antenna

KKLOP4-2470FJG4

Application

2.4/5/6 GHz 4/6/6 dBi antenna is designed to work with 4-Lead MIMO radios functioning in the 802.11n/be wireless protocol band.

Electrical Specifications

Frequency Band(MHz)	2400-2500	5150-7125
Polarization	Vertical	
Gain (dBi)	4	6
Horizontal Plane 3-dB BW(°)	360	360
Vertical Plane 3-dB BW(°)	50	30
VSWR	⩽2.0	
Isolation(dB)	⩾13	⩾20
Impedance (Ω)	50	
Maximum power(W)	50	

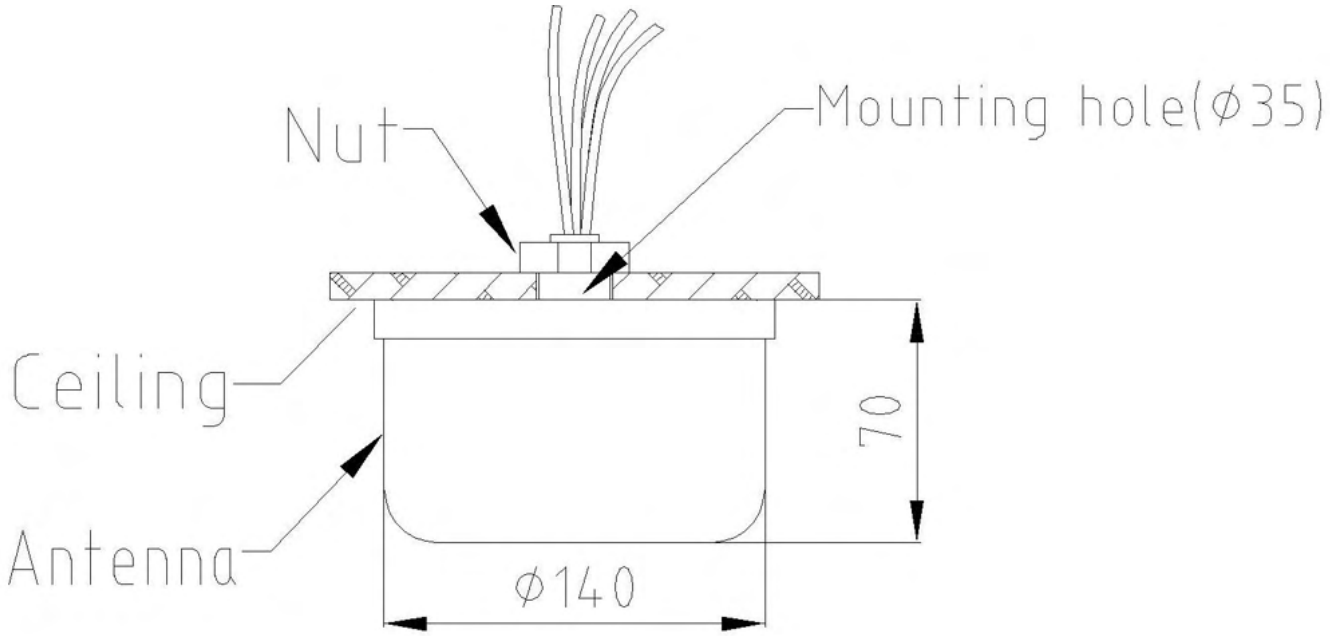
Mechanical Specifications

Connector Type	4*RP-SMA Male or 4*N Male		
Cable Type	RG58U		
Connector Position	Bottom		
Exposed cable(mm)	920（±10）		
Radome Material	PC		
Radome Color	White	Operating Temperature (℃)	-40 to +70
Dimensions(mm)	Φ140*70（±3）	Storage temperature range (℃)	-50 to +75
Antenna /Bracket Weight(kg)	0.45 /0.3	The humidity range (%)	5 to +95%
Mounting Type	Mast / Wall / Ceiling, (Bracket Steel plates / Silver white organic coating)		
Mast Diameter(mm)	Φ30-50	Rated Wind Velocity (m/s)	55

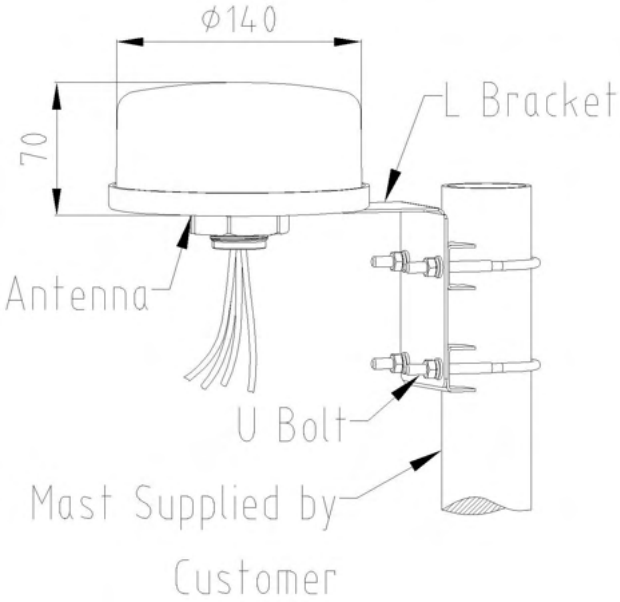
Product Picture

2.4/5/6GHz 4/6/6 dBi Omni Antenna

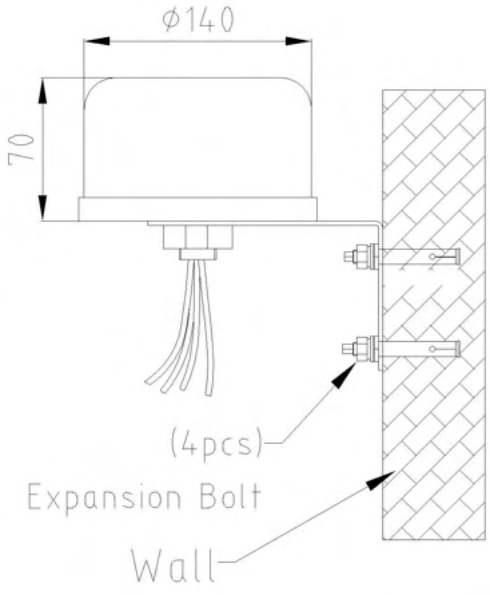
Installation Sketch (Ceiling Mounting)



Installation Sketch (Mast Mounting)



Installation Sketch(Wall Mounting)



2.4/5/6GHz 4/6/6 dBi Omni Antenna

KKLOP6-2470FJG4

Application

2.4/5/6 GHz 4/6/6 dBi antenna is designed to work with 6-Lead MIMO radios functioning in the 802.11n/be wireless protocol band.

Electrical Specifications

Frequency Band(MHz)	2400-2500	5150-7125
Polarization	Vertical	
Gain (dBi)	4	6
Horizontal Plane 3-dB BW(°)	360	360
Vertical Plane 3-dB BW(°)	50	30
VSWR	≤2.0	
Isolation(dB)	≥13	≥20
Impedance (Ω)	50	
Maximum power(W)	50	

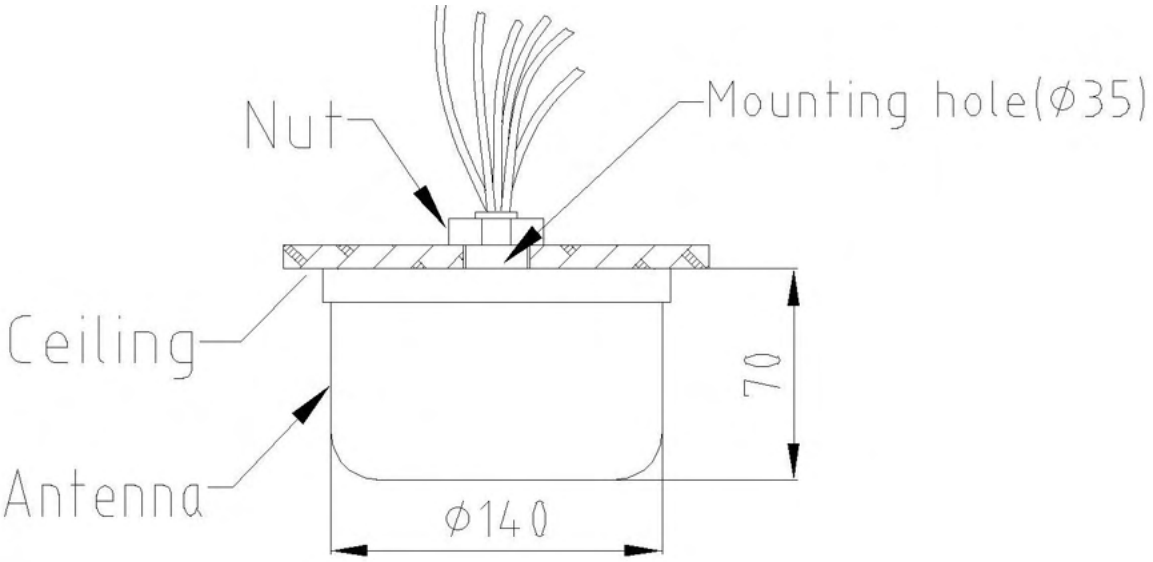
Mechanical Specifications

Connector Type	6*RP-SMA Male or 6*N Male		
Cable Type	RG58U		
Connector Position	Bottom		
Exposed cable(mm)	920（±10）		
Radome Material	PC		
Radome Color	White	Operating Temperature (℃)	-40 to +70
Dimensions(mm)	Φ140*70（±3）	Storage temperature range (℃)	-50 to +75
Antenna /Bracket Weight(kg)	0.55 /0.3	The humidity range (%)	5 to +95%
Mounting Type	Mast / Wall / Ceiling , (Bracket Steel plates / Silver white organic coating)		
Mast Diameter(mm)	Φ30-50	Rated Wind Velocity (m/s)	55

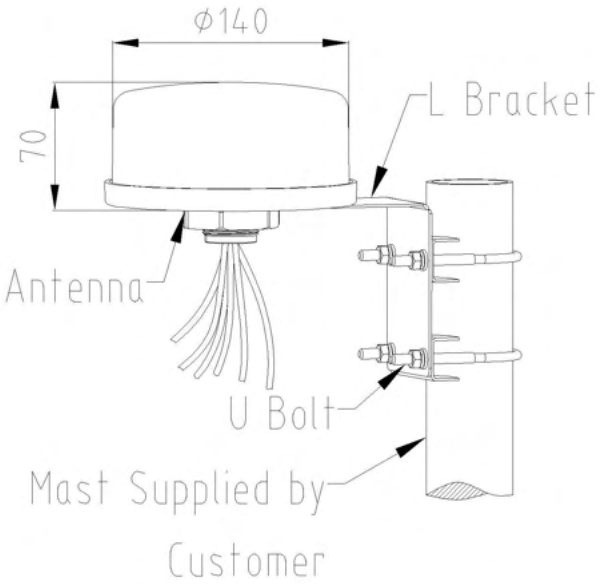
Product Picture

2.4/5/6GHz 4/6/6 dBi Omni Antenna

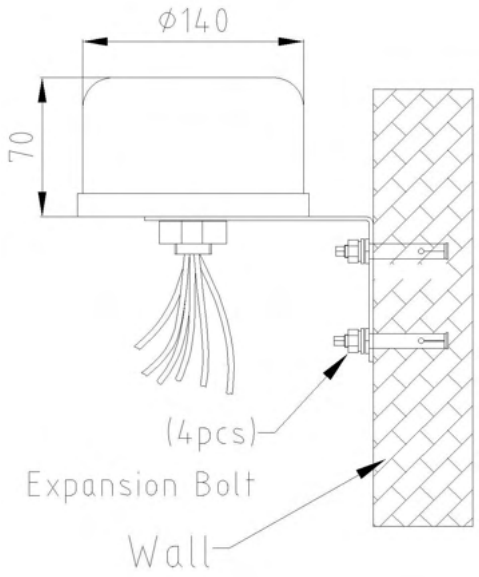
Installation Sketch (Ceiling Mounting)



Installation Sketch (Mast Mounting)



Installation Sketch(Wall Mounting)



2.4/5GHz 9dBi Dual Band Omni Antenna

KKLOP-2458D9F26-C

Application

- 2.4/5/GHz WLAN system
- IEEE 802.11a/b/g

Electrical Specifications

Freq Range(MHz)	2400-2500/5150-5850
Gain(dBi)	9
Hor Beamwidth(°)	360
Ver Beamwidth(°)	11
VSWR	≤2.0
Impedance(Ω)	50
Polarization	Vertical
Max Power(W)	20

Mechanical Specifications

Connector	N female
Dimensions(mm)	Φ26*920（±5）
Rodome/Colour	Fiberglass (White)
Weight(Kg)	Antenna:0.36 / Bracket:0.18
Bracket	JM-Q
Master Diameter(mm)	Φ40～Φ60
Rated Wind Velocity (m/s)	55

Product Picture **Installation Sketch**

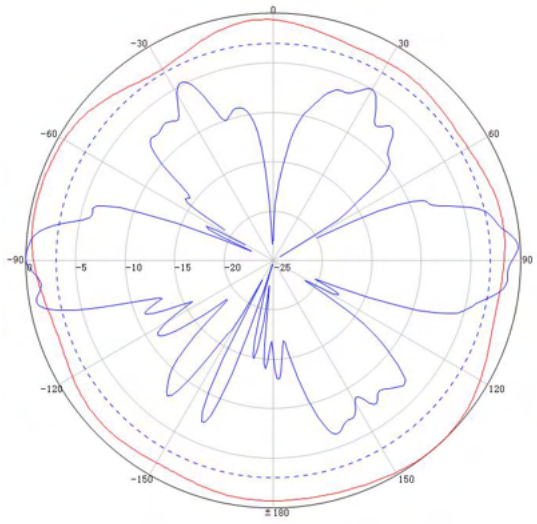
1-Port Fiberglass Omnidirectional Antenna

- 2400~2500/5150~5850 MHz
- 6~8dBi / 360° / Vertical
- Small size,high gain

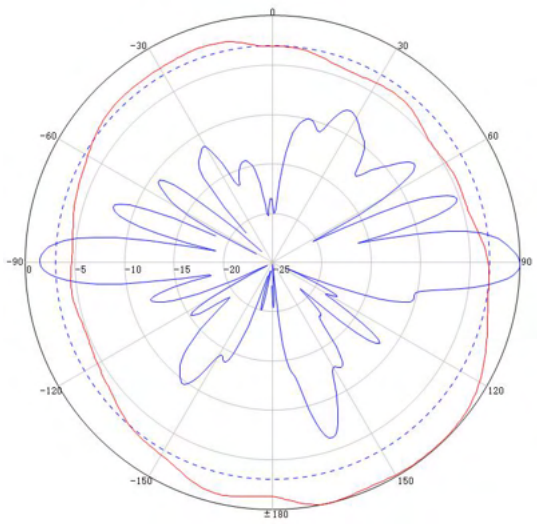
KKLOP-2458G8F20

Electrical Specifications		
Frequency Range (MHz)	2400~2500	5150~5850
Polarization	Vertical	
Typical Gain (dBi)	6	8
Typical Horizontal Beam Width (°)	360	
Typical Vertical Beam Width (°)	25	15
Impedance (Ω)	50	
VSWR	≤2.0	
Maximum Power (W)	50	
Mechanical Specifications		
Connector	1*N Male or 1*N Female	
Connector Position	Bottom	
Antenna Size (mm)	Φ19.6*300(±5)	
Weight (g)	120(±5)	
Radome Material	Fiberglass	
Radome Color	Gray	
Operating Humidity (%)	5~95	
Operating Temperature (°C)	-45~70	
Application	Outdoor	
Mounting	Equipment installation	

Typical Pattern



2400~2500MHz



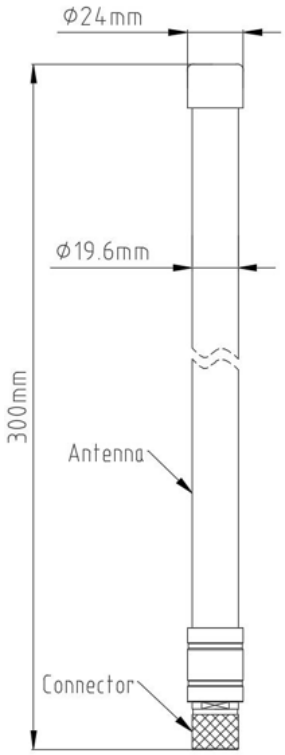
5150~5850MHz

1-Port Fiberglass Omnidirectional Antenna

- 2400~2500/5150~5850 MHz
- 6~8dBi / 360° / Vertical
- Small size,high gain

Product Information

Installation Sketch



617～960/1695～2700/3300-7200MHz 4.5/5/5dBi SISO Omnidirectional antenna

TKLQJ-0672G5F65

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications			
Frequency range (MHz)	617～960	1695～2700	3300-7200
Polarization	Vertical		
Peak Gain (dBi)	4.5	5	5
Horizontal beam width (°)	360		
Vertical beam width (°) typ.	75	50	30
Impedance (Ω)	50		
VSWR	≤2.2		
Maximum power (W)	50		
Lighting protection	DC Ground		

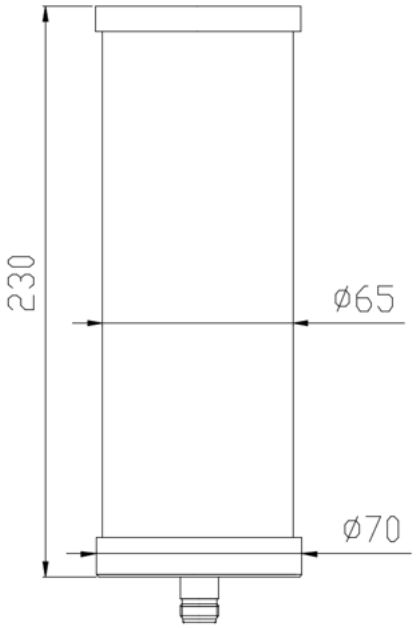
Mechanical specifications	
Connector	N Female
Connector position	Bottom
Antenna size (mm)	Φ65*H230
Packing size (mm)	362*105*90
Weight (kg)	≤1 (Include bracket)
Radome material	Fiberglass
Radome color	White
Waterproof	IP65（After blocking the water outlet hole）
Operating temperature (℃)	-40～60
Application	Outdoor
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ25-Φ50
Mounting kit	JM-M8

617～960MHz Typical pattern: **1695～2700MHz Typical pattern:** **3300～7200MHz Typical pattern:**

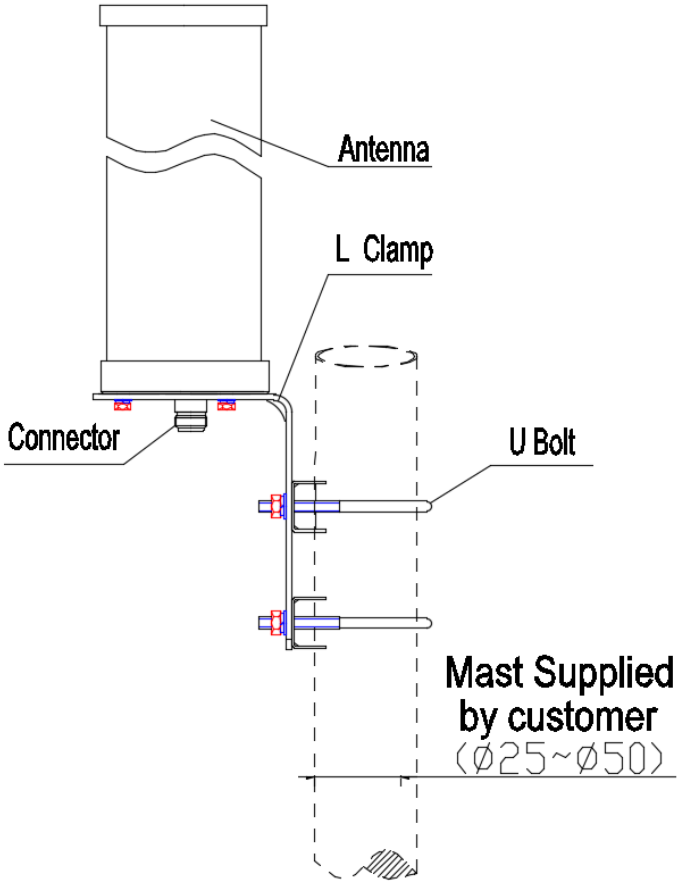
617～960/1695～2700/3300-7200MHz 4.5/5/5dBi SISO Omnidirectional antenna

Product pictures

Product size



Installation Sketch



617～960/1710～2700/3300～4000/4900～6000MHz 3/5/5/5dBi MIMO Omnidirectional antenna

TKLQJ-D0660R5B

Application

Used in 2G/3G/4G/5G/WLAN system

Electrical specifications				
Frequency range (MHz)	617-960	1710～2700	3300～4000	4900～6000
Polarization	2*Vertical			
Maximum Gain (dBi)	3	5	5	5
Horizontal beam width (°)	360			
Typical Vertical beam width (°)	85	70	55	28
Impedance (Ω)	50			
VSWR	≤2.5			
Maximum power (W)	50			

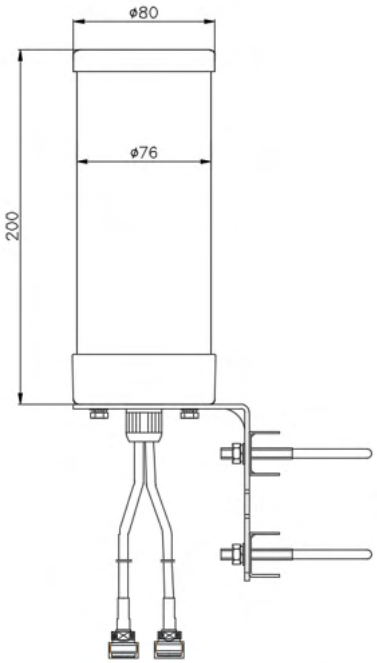
Mechanical specifications	
Connector	2*N Female or 2*SMA male
Customized Cable Length (cm)	35
Connector position	Bottom
Antenna size (mm)	Φ80*200
Packing size (mm)	330*105*90
Weight (kg)	0.8 (Include bracket)
Radome material	UPVC
Radome color	White
Operating humidity (%)	5～95
Operating temperature (℃)	-40～60
Application	Outdoor
Rated wind velocity (m/s)	40
Suitable pole diameter (mm)	Φ25-Φ50
Mounting kit	JM-M8

617～960MHz Typical pattern: **1710～2700MHzTypical pattern:** **3300～6000MHzTypical pattern:**

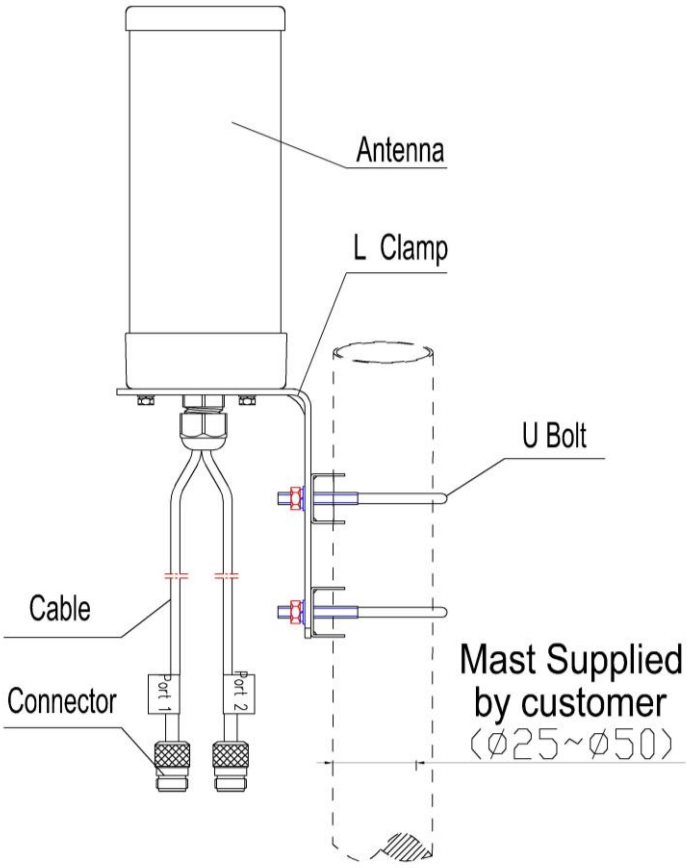
617～960/1710～2700/3300～4000/4900～6000MHz
3/5/5/5dBi　MIMO Omnidirectional antenna

Product pictures

Product size



Installation Sketch



TKLQJ-D4958Q11A

Dual Polar Omni Antenna Technical Sheet

Applications

- 5GHz WLAN /Wi-Fi System
- Dual polarization operation

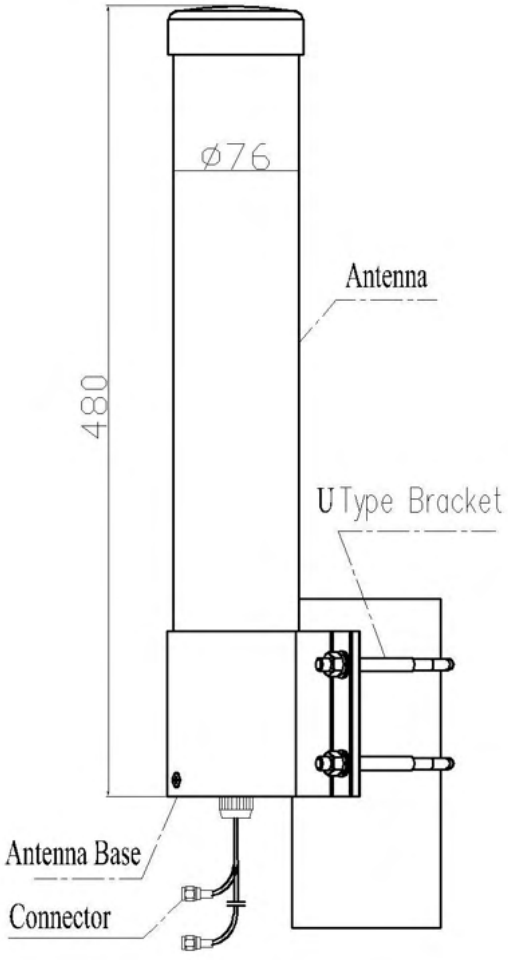
Features

- High Gain, High isolation
- Light weight, Small size
- Strong Corrosion Resistance

Specifications

Model	TQJ-D4958Q11A
Freq.Range-MHz	4900-5850
Gain-dBi	11
VSWR	≤2.0
Hor.Beamwidth-°	360
Ver.Beamwidth-°	8
Electrical Downtilt-°	3
Isolation-dB	≥25
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	50
Connector	2*SMA Female
Dimensions-mm	φ76*480
Weight-Kg	1.5
Mast Diameter-mm	Φ50-90
Radome Material /Color	PVC White

Installation Sketch



VI. WIFI Parabolic Antenna

TKLDJ-2327SPL9D

Grid Parabolic Antenna

Technical Sheet

Applications

- 2.4 GHz WLAN system
- 2.3～2.7GHz WiMax system
- Long distance transmission
- Wireless bridge
- Client antenna

Features

- High gain, low VSWR
- Die cast Aluminum reflector
- UV stable coat finish
- Supplied with down-tilt bracket

Reference Pattern

Specifications

Model	TKLDJ-2327SPL9D
Freq.Range-MHz	2300～2700
Gain-dBi	25
VSWR	≤1.5
Hor.Beamwidth-°	11
Ver.Beamwidth-°	7
F/B Ratio-dB	≥25
Impedance-Ω	50
Polarization	Vertical
Max.Power-W	100
Connector	N Female or Customized
Dimension-m	0.6×0.9
Weight-Kg	2.5
Mast Diameter-mm	Φ40 to 50
Note: High accuracy square grid parabolic dish	

Installation Sketch

TKLDJ-2400A

Square Grid Parabolic Antenna

Technical Sheet

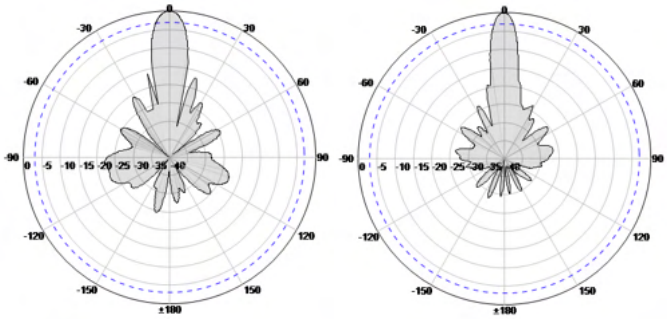
Applications

- Point to Point / Point to Multi-point Application
- Long distance communications
- Client Antenna

Features

- High Gain
- Aluminum Die Cast Grid
- UV Stable Light Gray Powder Coat Finish
- All Weather Operation
- Easy to Assemble

Patterns

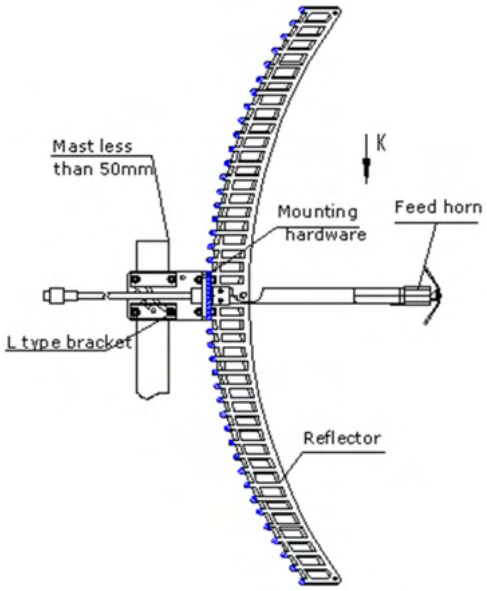


E Plane H Plane

Specifications

Model	TKLDJ-2400A
Freq. Range-MHz	2400～2483
Bandwidth-MHz	83
Gain-dBi	24
Hor. Beamwidth-°	8
Ver. Beamwidth-°	12
VSWR	≤1.5
F/B Ratio-dB	≥28(H Plane)
Impedance-Ω	50
Polarization.	Vertical or Horizontal
Max. Power-W	100
Connector Type	N Female or Customization
Dimension-m	0.6×0.9
Weight-Kg	3.6
Pole Diameter-mm	ϕ40-50

Install Sketch



Installation:

1.Assembly the two pieces of reflector symmetrically.

2.Mount the feed horn on the reflector according to the sketch map. Make sure the feed dipoles parallel with most bars of the grid reflector. When the feed dipole and most grid bars are vertical to the ground, the antenna is vertical polarized. When the feed dipole and most grid bars are horizontal to the ground, the antenna is horizontal polarized.

3.Mount the “L” type bracket at the back of the reflector, then mount the antenna on the mast supplied by customer according to the sketch map.

4.Test the antenna with equipment to make sure the antenna receive the best signal by tuning the azimuth and pitching angle, then lock all the screws and seal the connector between antenna and cable.

TKLDJ-6471P6A

Dish Antenna Technical Sheet

Applications

- 6.425 to 7.125GHz

Features

- High Gain, Good F/B Ratio
- High Precise Parabolic Dish
- UV-Coated Aluminium Alloy
- V/H Polarization is Compatible
- Standard Mounting Kits

Installation Sketch

Specifications

Model	TKLDJ-6471P6A
Freq.Range-MHz	6425-7125
Gain-dBi	30
VSWR	≤2.0
Hor.Beamwidth-°	5
Ver.Beamwidth-°	4
Front-to-Back Ratio-dB	≥34
Impedance-Ω	50
Polarization	Vertical Or Horizontal
Maximum Power-W	100
Connector	1*N-Female
Dimensions-m	Φ0.6
Weight-Kg	6.5
Mast Diameter-mm	Φ50-115 (JM-O9)

TKLDJ-D4500P9A

Dish Antenna Technical Sheet

Applications

- 4.4 to 5.0GHz

Features

- High Gain, Good F/B Ratio
- High Precise Parabolic Dish
- UV-Coated Aluminium Alloy
- V/H Polarization is Compatible
- Standard Mounting Kits

Installation Sketch

Specifications

Model	TLKDJ-D4500P9A
Freq.Range-MHz	4400-5000
Gain-dBi	30
VSWR	≤1.6
Isolation-dB	≥20
Hor.Beamwidth-°	4.5
Ver.Beamwidth-°	4.5
Front-to-Back Ratio-dB	≥40
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	100
Connector	2*N Female
Dimensions-m	Φ0.9
Weight-Kg	10.5
Mast Diameter-mm	Φ50-75 （JM-O1)

TKLDJ-D4958P6D

Dish Antenna Technical Sheet

Applications

- 4.9 to 6.125GHz WLAN
- 5GHz WiMax system
- 4.9GHz terrestrial public safety system
- Wireless Bridges

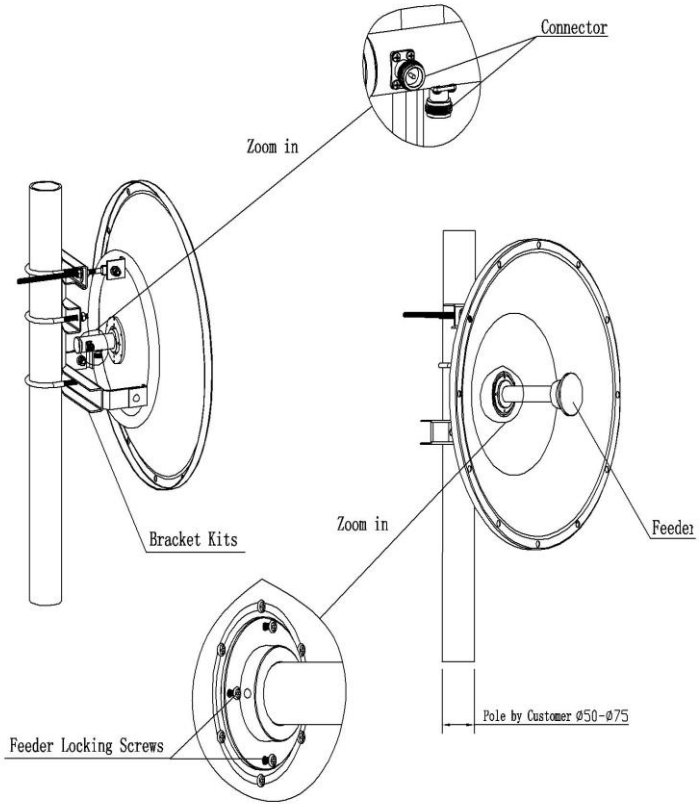
Features

- High gain, High F/B Ratio
- High accuracy aluminum alloy reflector
- UV stable coat finish
- Vertical and Horizontal Polarization
- Supplied with down-tilt bracket Kit

Specifications

Model	TKLDJ-D4958P6D
Freq.Range-MHz	4900-6125
Gain-dBi	28
VSWR	≤2.0
Isolation-dB	≥25
Hor.Beamwidth-°	5.0
Ver.Beamwidth-°	5.0
Front-to-Back Ratio-dB	≥35
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	100
Connector	2*N Female
Dimensions-m	Φ0.6
Weight-Kg	5.5
Mast Diameter-mm	Φ50-70

Installation Sketch



Installation:
1. Fixing mounting kits and feeder to parabolic dish, notice the polarization mark.
2. Installing assistant bracket, then install antenna above the assistant bracket, not fixing screws of the mounting kits.
3. To make the received signal maximum by adjusting antenna's azimuth and elevation, then fix screws of the mounting kits and move the assistant bracket to the illustrated place.
4. Antenna is work at V/H dual ploarization mode. Antenna's polarization can be adjusted by rotating the feeder. When the connector is vertical, antenna work at vertical polarization mode, otherwise at horizontal polarization mode.

TKLDJ-D4958P9D

Dish Antenna Technical Sheet

Specifications

Model	TKLDJ-D4958P9D
Freq.Range-MHz	4900-6125
Gain-dBi	32
VSWR	≤2.0
Isolation-dB	≥25
Hor.Beamwidth-°	3.5
Ver.Beamwidth-°	3.5
Front-to-Back Ratio-dB	≥40
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	100
Connector	2*N Female
Dimensions-m	Φ0.9
Weight-Kg	10.5
Mast Diameter-mm	Φ50-70

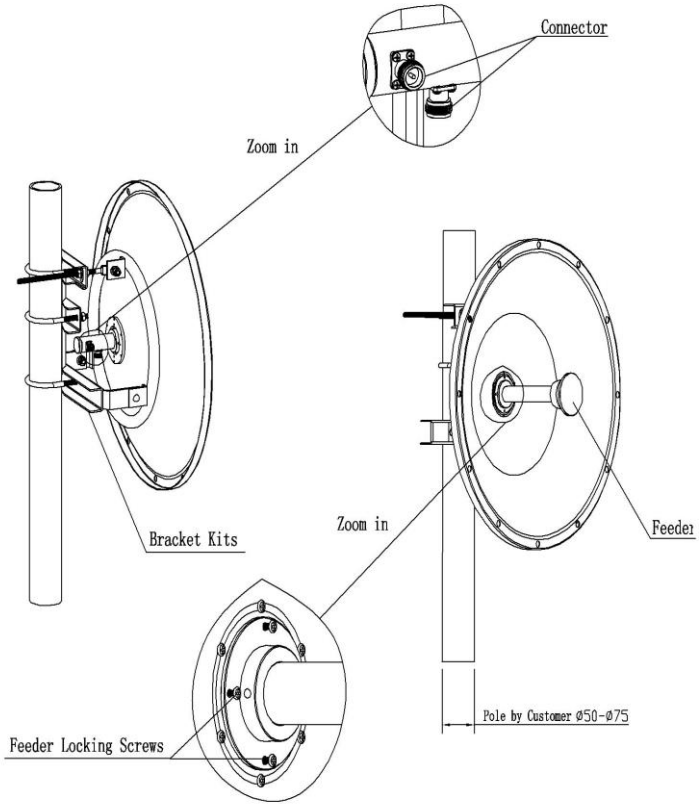
Applications

- 4.9 to 6.125GHz WLAN
- 5GHz WiMax system
- 4.9GHz terrestrial public safety system
- Wireless Bridges

Features

- High gain, High F/B Ratio
- High accuracy aluminum alloy reflector
- UV stable coat finish
- Vertical and Horizontal Polarization
- Supplied with down-tilt bracket Kit

Installation Sketch



Installation:
1. Fixing mounting kits and feeder to parabolic dish, notice the polarization mark.
2. Installing assistant bracket, then install antenna above the assistant bracket, not fixing screws of the mounting kits.
3. To make the received signal maximum by adjusting antenna's azimuth and elevation, then fix screws of the mounting kits and move the assistant bracket to the illustrated place.
4. Antenna is work at V/H dual ploarization mode. Antenna's polarization can be adjusted by rotating the feeder. When the connector is vertical, antenna work at vertical polarization mode, otherwise at horizontal polarization mode.

4900-6125MHz 34dBi 3° Dish Antenna

TKLDJ-D4958P12D

Application

☆4.9GHz/5.5GHz/5.8GHz WLAN. ☆Wireless Bridge.

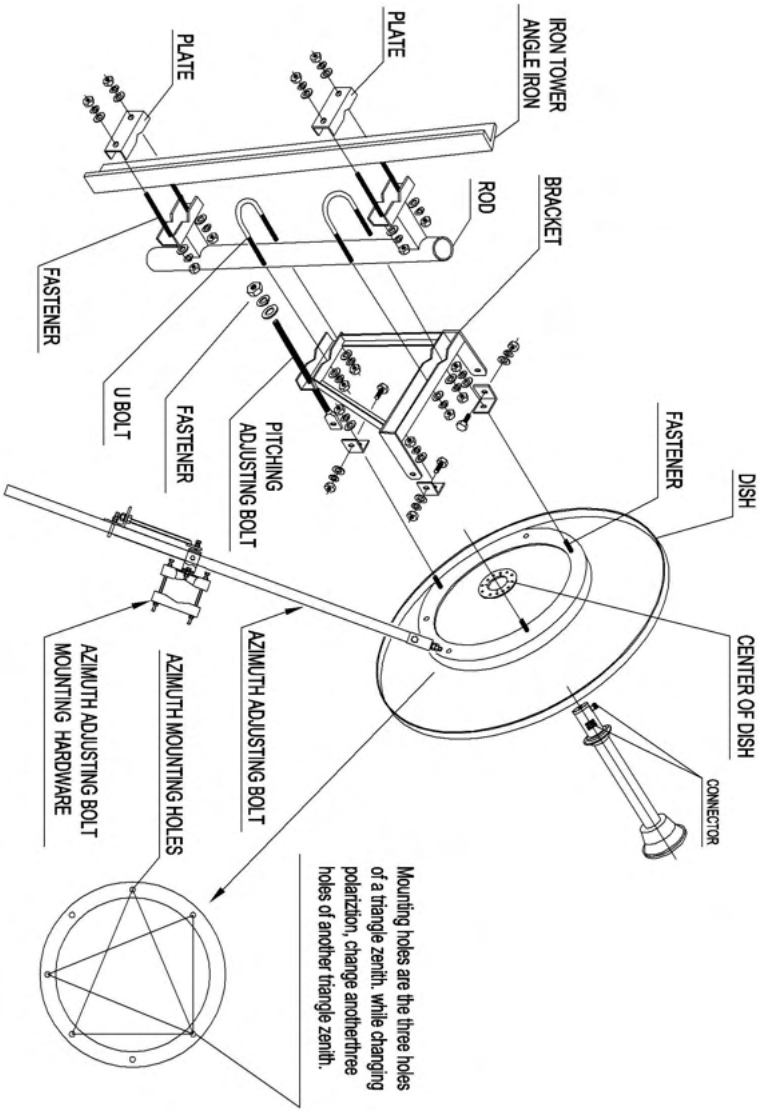
Electrical specifications	
Frequency Range (MHz)	4900-6125
Polarization	Vertical and Horizontal
Gain-(dBi)	34
Horizontal Plane 3-dB BW(°)	3.0
Elevation Plane 3-dB BW(°)	3.0
Front-to-Back Ratio (dB)	≥40
Impedance (Ω)	50
VSWR	≤2.0
Isolation(dB)	≥25
Maximum Power (W)	100
Mechanical specifications	
Connector	2*N Female
Connector Position	Bottom
Antenna Size (m)	ϕ1.2
Antenna Weight (kg)	20
Feeder material	Aluminum &Plastic
Max.Wind Speed(m/S)	55
Operating Temperature (℃)	-40/+60
Suitable Pole Diameter (mm)	Φ60-110

Patterns

4900-6125MHz 34dBi 3° Dish Antenna

Dish Reflector Picture

Installation Sketch



Installation Procedure

1. Ensure of the installation position and polarization first before install. Then follow steps below.
2. Mounting Steps.
2.1 Install the mounting pole.
2.2 Join the bracket with the reflector.
2.3 Install the feed before mast the antenna to the mounting pole. Insert the trail of the feed into the middle of the dish and adjust the polarization direction according to the polarization arrow.
2.4 Join the antenna with the mounting pole by using the U bolt or plate.
2.5 Install the azimuth angle adjusting pole.
3. Adjusting Steps
3.1 Loosen the screw of the pitching adjusting pole, use the pitching adjusting pole to debug the pitching angle.
3.2 Loosen the U bolts of mounting pole, use the azimuth adjusting pole to debug the azimuth angle.
3.3 Stop Adjusting when receiving the biggest signal, then fasten all the fasteners.
4. Remarks
4.1 Please protect the antenna and the feed from bumping during portage.
4.2 Must use the waterproof tapes on the joint for cables and wave-guides.
4.3 After debugging the antenna, please screw down all the firmware to ensure of the transmitting performance.
4.4 Make some change according to the practical situation.

TKLDJ-D5970P6A

Dish Antenna Technical Sheet

Applications

- 5.925 to 7.125GHz

Features

- High Gain, Good F/B Ratio
- High Precise Parabolic Dish
- UV-Coated Aluminum Alloy
- V/H Polarization is Compatible
- Standard Mounting Kits

Installation Sketch

Specifications

Model	TKLDJ-D5970P6A
Freq.Range-MHz	5925-7125
Gain-dBi	28
VSWR	≤2.0
Isolation-dB	≥20
Hor. Beam width-°	5
Ver. Beam width-°	4
Front-to-Back Ratio-dB	≥34
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	100
Connector	2*N Female
Dimensions-m	Φ0.6
Weight-Kg	6.5
Mast Diameter-mm	Φ50-70

TKLDJ-D5970P9A

Dish Antenna Technical Sheet

Specifications

Model	TKLDJ-D5970P9A
Freq.Range-MHz	5925-7125
Gain-dBi	32
VSWR	≤2.0
Isolation-dB	≥20
Hor.Beamwidth-°	3.5
Ver.Beamwidth-°	3.5
Front-to-Back Ratio-dB	≥40
Impedance-Ω	50
Polarization	Vertical and Horizontal
Maximum Power-W	100
Connector	2*N Female
Dimensions-m	Φ0.9
Weight-Kg	10.5
Mast Diameter-mm	Φ50-70

Applications

- 5.925 to 7.125GHz

Features

- High Gain, Good F/B Ratio
- High Precise Parabolic Dish
- UV-Coated Aluminium Alloy
- V/H Polarization is Compatible
- Standard Mounting Kits

Installation Sketch

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