

1. Antenna's type:

Generally, there are 5 common type of antenna:

Type	Shape	Beam width (Relatively)	Distance attainability (Relatively)
Omni	Mast	Omni-directional Broadest, 360 degree	Shortest, Scale 1
Panel	Panel	45 ~ 200 degree	Medium, Scale 2
Yagi	Fish bone	45~15 degree	Farther, Scale 3
Parabolic Grid	Parabolic grid	Below 15 degree	Longer, Scale 4
Dish	Dish	Below 10 degree	Farthest, Scale 5

X-LIN supplies below-mentioned antennas:

Band	Model	Type	Frequency	Gain	Polarization	Beamwidth	Connector
UHF/VHF (MHz)	OM-VU05	Omni	260/380	5-dbi	Vertical	360	M-male
	OM-VU08	Omni	260/380	8-dbi	Vertical	360	M-male
	YG-VU09	Yagi	260/380	9-dbi	V&H	10/12	M-male
ISM (GHz)	OM-2405	Rubber	2.4~2.5	5-dbi	Vertical	360	N-male
	OM-2408	Omni	2.4~2.5	8-dbi	Vertical	360	N-female
	OM-2415	Omni	2.4~2.5	15-dbi	Vertical	360	N-female
	FP-2415	Panel	2.4~2.5	15-dbi	V&H	7/120	N-female
	FP-2418	Panel	2.4~2.5	18-dbi	V&H	75/45	N-female
	YG-2413	Yagi	2.4~2.5	13-dbi	V&H	19/32	SMA
	YG-2416	Yagi	2.4~2.5	16-dbi	V&H	19/32	SMA
	PG-2420	Grid	2.4~2.5	20-dbi	V&H	11/9	N-female
	PG-2424	Grid	2.4~2.5	24-dbi	V&H	11/9	N-female
	PG-3422	Grid	3.4~3.5	22-dbi	V&H	11/9	N-female
	OM-5812	Omni	5.7~5.8	12-dbi	Vertical	360	N-female
PG-5822	Grid	5.7~5.8	22-dbi	V&H	11/9	N-female	

For the performance, there are two factors, beamwidth and distance. As a common rule, the broader the beamwidth is, the shorter the distance it is; so from OM-2408 to PG-2424; the covering range is from 360 degree to 9 degree; while distance from shortest to farthest.