

Antenna

Antenna Characteristics

An antenna is the radiating and receiving element from which the radio signal, in the form of RF power, is radiated to its surroundings and vice versa. The transmission range is a function of the antenna gain and transmitting power. These factors are limited by country regulations.

The WinLink may be operated with an integrated antenna attached to the ODU unit, or with an external antenna wired to the ODU via an N-type connector. All cables and connections must be connected correctly to reduce losses. The required antenna impedance is 50Ω.

Table : Antenna Characteristics

Type		Gain [dBi]	Max Range		Beam width [degrees]	Dimensions		Weight		Connector	Lightening Protection
			[km]	[miles]		mm	in	Kg	lb		
5.8, 5.4, 5.3 GHz											
Integrated	Flat panel	22	40	25	9.0	305×305×15	12×12×0.6	1.2	2.6	NR	Yes
External	Flat panel	28	80	50	4.5	600×600×51	23.6×23.6×2	5.0	11.0	N-type	No
5.8 GHz only											
External	Dish	32.5	80	50	4.5	Dia 900	Dia 35.4	10	22	N-type	No
4.9 GHz											
External	Flat panel	21	24	15	9.0	305×305×15	12×12×0.6	1.2	2.6	N-type	Yes
External	Dish	27	80	50	5	Dia 600	Dia 23.6	5.0	11.0	N-type	Yes
2.4 GHz											
Integrated	Flat panel	16	40	25	20	305×305×25	12×12×1	1.2	2.6	NR	Yes
External	Grid	24	80	50	H:10 V:14	600×997×380	23.5×39.2×15	2.0	4.6	N-type	No
2.5 GHz											
Integrated	Flat panel	17.5	40	25	25	305×305×25	12×12×1	1.2	2.6	NR	Yes
External	Grid	24	80	50	H:9 V:13	600×900	23.6×35.4	2.5	5.5	N-type	No