



Subscribers Wi-Fi Antennas

107497, Moscow Chernicinsky pr-d 7/1
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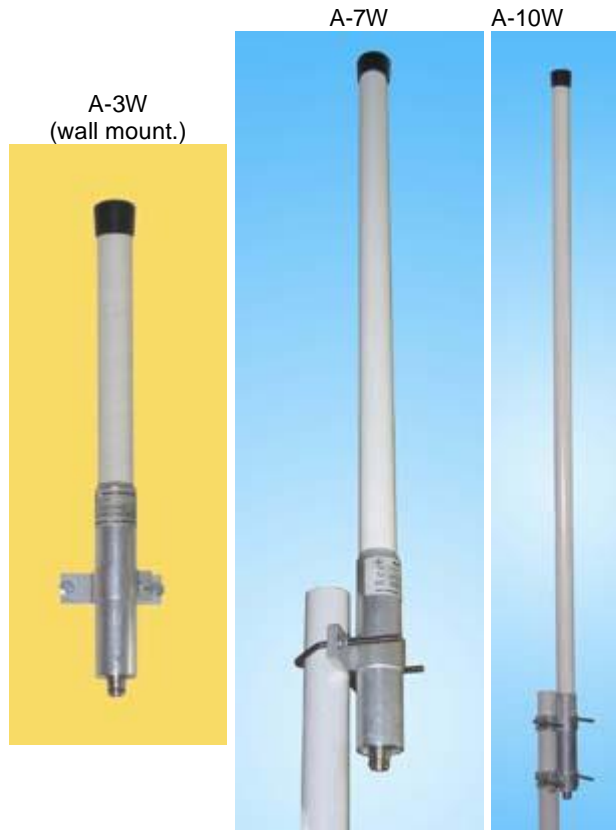
Model	Short description	Band, MHz
A-3W	Collinear, OMNI, fiberglass, white, 3dBi	2400-2485
SS-1W	Indoor, OMNI, ceiling	2400-2485
SU-6W	Subscriber, patch, ABS-grey	2400-2485
SU-12W	Subscriber, Yagi, ABS-grey, 12 and 15 dBi	2400-2485
SU-15W		
SU-12W(M)	Subscriber, Yagi, ABS-grey, 12 and 15 dBi, econom	2400-2485
SU-15W(M)		

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WLAN 2400-2485 MHz Collinear antennas A-3W, A-7W, A-10W

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Electrical specifications

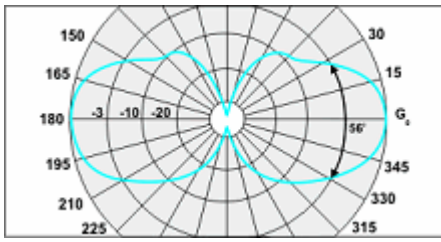
Model	A-3W	A-7W	A-10W
Operating frequency band, MHz	2400-2485	2400-2485	2400-2485
Gain, dBi	3	7	10
VSWR, not more than	1.5	1.5	1.5
Front-to-back ratio, dB			present
Polarization			vertical
Electrical downtilt	0°	6°	9°
Max. power input, W	10	10	10
Sector in H-plane (-3 dB)	360°	360°	360°
Sector in E-plane (-3 dB)	56°	14°	6.5°
Impedance, Ohm	50	50	50

Mechanical specifications

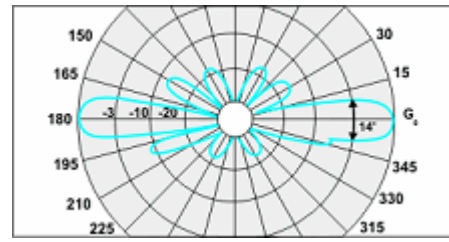
Model	A-3W	A-7W	A-10W
Dimensions (LxWxH), mm	35x35x370	35x35x840	35x35x1330
Weight, kg	0.1	0.28	0.38
Rated wind velocity, m/s	50	50	40
Radiator	PCB	PCB	PCB
Radome	white PVC		grey, PVC
Mounting		on a mast diam. 35-70 mm or on a wall	
Connector		N-female (TNC optional)	

These spike antennas possess an ideally circular radiation pattern in horizontal plane and a gain of 3, 7 and 10 dBi, correspondingly. The antenna A-3W is recommended to be applied as the inside-the-office antenna, where it is not possible to use the antennas with high gain. The models A-7W and A-10W have an increased gain and a tilt of the radiation pattern in the vertical plane what ensures the most efficient reception and transmission of SHF energy near the earth surface where the subscribers are positioned. These models are applied in the case of the central disposition of the base station or in the case when the objects are non- significantly distanced.

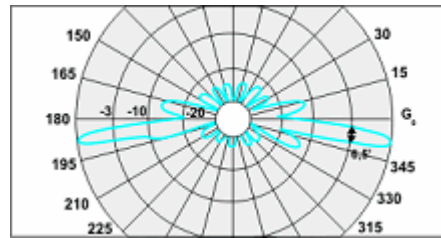
A-3W E-plane pattern



A-7W E-plane pattern (2.485 GHz)



A-10W E-plane pattern (2.4 GHz)





WLAN 2400-2485 MHz Indoor Antennas SS-1W, SU-6W

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Electrical specifications

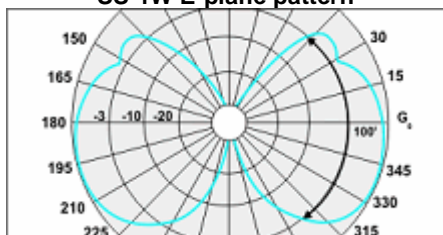
Model	SS-1W	SS-6W
Operating frequency band, MHz	2400-2485	2400-2485
Gain, dBi	1	5.5
VSWR, not more than	1.5	1.5
Front-to-back ratio, dB	present	20
Polarization		vertical
Max. power input, W	10	10
Sector in H-plane (-3 dB)	360°	78°
Sector in E-plane (-3 dB)	100°	42°
Impedance, Ohm	50	50

Mechanical specifications

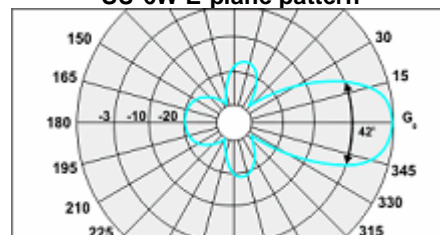
Model	SS-1W	SU-6W
Dimensions (LxWxH), mm	172x172x68	102x42x133
Weight, kg	0.08	0.25
Rated wind velocity, m/s	no data	55
Radiator	PCB	copper
Radome	Polystyrene white	ABS
Mounting	On a ceiling	On a wall
Connector		R-SMA (R-TNC, N-female, TNC, SMA - optional)
Additional complete set	-	low loss cable 2.5 m

To construct an inside-the-office network WLAN these models would be very suitable. An antenna SS-1W is mounted on the ceiling and provides a circular radiation pattern, and antenna SU-6W, while being mounted at any horizontal and vertical plane, provides a directional radiation of the SHF energy. An antenna SU-6W is supplied with a sufficiently long feeding cable (2,5 m) which is ended by a connector that is necessary for switching directly to the corresponding equipment. That's why the necessity in additional cables and transmit elements is eliminated.

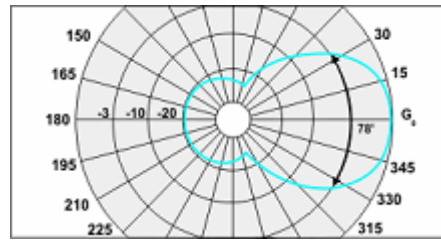
SS-1W E-plane pattern



SU-6W E-plane pattern



SU-6W H-plane pattern



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WLAN 2400-2485 MHz Subscribers' antennas SU-12W, SU-12W(M), SU-15W, SU-15W(M)

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SU-12W with MN-3



SU-15W



SU-15W(M)



SU-12W(M)



SU-12W(M) Underside



Electrical specifications

Model	SU-12W/SU-12W(M)	SU-15W/SU-15W(M)
Operating frequency band, MHz	2400-2485	2400-2485
Gain, dBi	12	15
VSWR, not more than	1.5	1.5
Front-to-back ratio, dB	23	23

Polarization		vertical
Max. power input, W	10	10
Sector in H-plane (-3 dB)	29°	25°
Sector in E-plane (-3 dB)	49°	25°
Impedance, Ohm	50	50

Mechanical specifications

Model	SU-12W	SU-12W(M)	SU-15W	SU-15W(M)
Dimensions (LxWxH), mm	284x95x164	284x95x164	294x103x294	294x103x294
Weight, kg	0.7	0.7	1.05	1.05
Rated wind velocity, m/s	55	55	55	55
Radiator	copper	copper	copper	copper
Radome			ABS	
Mounting	on a mast (30-220 mm) with "Norma" or CP-55D, CP-115, CP-220			
Connector	N-female on a cable	N-female	N-female on a cable	N-female

The directional subscribers` antennas SU-12W and SU-15W with the gain of 12 and 15 dBi, correspondingly, have a performance which is suitable for all kinds of the weather conditions due to the frost-resistant radome made of ABC-plastic. Because of its construction (arrays of active "patch" and passive elements) the antennas have an increased gain if compared with the classic flat antennas of the same sizes. The cable output is implemented on the high-quality cable of Huber-Suhner production and on a connector of Rosenberger production what ensures a stability of the characteristics.

