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Subscribers Antennas for DECT

Model	Short description	Band, MHz
A-3D	Collinear, OMNI, fiberglass, white	1880-1900
SS-1D	Indoor, OMNI, ceiling	1880-1900
SU-6D	Subscriber, patch, ABS-grey	1880-1900
SU-12D, SU-15D	Subscriber, Yagi, ABS-grey, 12 and 15 dBi	1880-1900
SU-12D(M), SU-15D(M)	Subscriber, Yagi, ABS-grey, 12 and 15 dBi, econom	1880-1900

2009



DECT 1880-1900 MHz Collinear antennas A-3D, A-5D, A-8D

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Electrical specifications

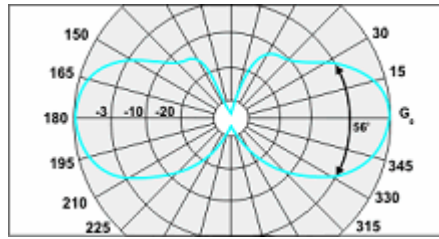
Model	A-3D	A-5D	A-8D
Operating Frequency band, MHz	1880-1900	1880-1900	1880-1900
Gain, dBi	3	5.2	8
VSWR, not more than	1.5	1.5	1.5
Polarization	vertical	vertical	vertical
Electrical downtilt	0°	0°	3°
Max. power input, W	10	10	10
Sector in H-plane (-3 dB)		360°	
Sector in E-plane (-3 dB)	56°	22°	10°
Impedance, Ohm	50	50	50

Mechanical specifications

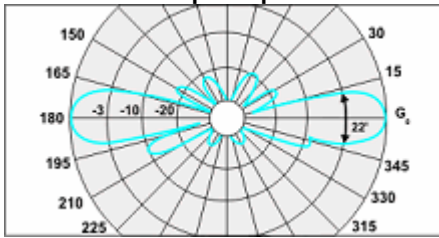
Model	A-3D	A-5D	A-8D
Dimensions (LxWxH), mm	35x35x370	35x35x840	35x35x1330
Weight, kg	0.1	0.28	0.38
Rated Wind Velocity, m/s	50	55	40
Radiator	PCB	PCB	PCB
Radome	grey PVC	grey PVC	grey PVC
Mounting kit	on a wall		on a mast
Connector	TNC-male		N-female (TNC optional)

These antennas are characterized by an ideally circular radiation pattern in horizontal plane and a gain coefficients of 3, 5,2 and 8 dBi correspondingly. The antenna A-3D is recommended to be applied as an inside-the-office antenna, while the rest of antennas - as the base antennas. The model A-8D has an increased gain and a tilt of the radiation pattern in a vertical plane what provides a maximum efficiency at receiving and transmitting the SHF power near the earth surface, where the subscribers are positioned.

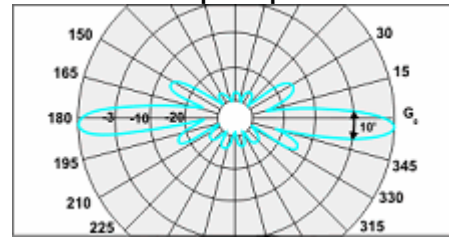
A-3D E-plane pattern



A-5D E-plane pattern



A-8D E-plane pattern





DECT 1880-1900 MHz Indoor Antennas SS-1D, SU-6D

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SS-1D



SU-6D



Electrical specifications

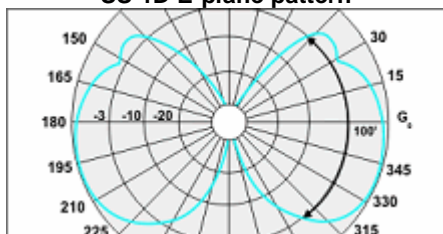
Model	SS-1D	SU-6D
Operating frequency band, MHz	1880-1900	1880-1900
Gain, dBi	1	5.5
VSWR, not more than	1.5	1.5
Polarization		vertical
Front-to-back ratio, dB	present	15
Max. power input, W	10	10
Sector in H-plane (-3 dB)	360°	90°
Sector in E-plane (-3 dB)	100°	52°
Impedance, Ohm	50	50

Mechanical specifications

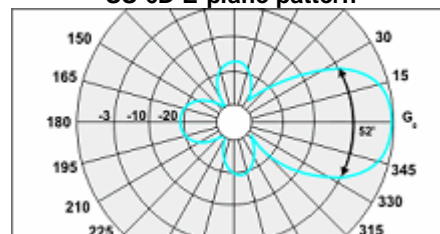
Model	SS-1D	SU-6D
Dimensions (LxWxH), mm	172x172x68	102x42x133
Weight, kg	0.08	0.25
Rated wind velocity, m/s	no data	55
Radiator	PCB	copper
Radome	Polystyrene white	ABS
Connector	N-female	TNC (N-fem, SMA - optional)
Mounting	On a ceiling	On a wall
Additional complete set	-	low loss cable 2.5 m

For creation of the inside-the-office or the inside-the-premises local DECT network these model would be very suitable. The antenna SS-1D is mounted on the ceiling and provides a circular radiation pattern, while the antenna SU-6D being fixed at any horizontal and vertical plane ensures the directional radiation of SHF power. Thus by means of using these antennas as well as the system of their feeding by the directed dividers of our production you will be able to construct an efficient inside-the-office communications system.

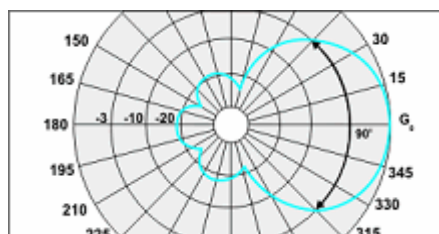
SS-1D E-plane pattern



SS-6D E-plane pattern



SU-6D H-plane pattern





DECT 1880-1900 MHz Subscribers' antennas SU-12D, SU-12D(M), SU-15D, SU-15D(M)

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SU-12D (wall mount.)



SU-15D (mast mount.)



SU-12D(M)



SU-15D(M)



SU-12D(M)Underside



Electrical specifications

Model	SU-12D/SU-12D(M)	SU-15D/SU-15D(M)
Operating frequency band, MHz	1880-1900	1880-1900
Gain, dBi	12	15
VSWR, not more than	1.5	1,5
Front-to-back ratio, dB	20	25
Polarization	vertical	vertical
Max. power input, W	10	10

Sector in H-plane (-3 dB)	29°	30°
Sector in E-plane (-3 dB)	49°	32°
Impedance, Ohm	50	50

Mechanical specifications

Model	SU-12D	SU-12D(M)	SU-15D	SU-15D(M)
Dimensions (LxWxH), mm	284x95x164	284x95x164	294x103x294	294x103x294
Weight, kg	0.8	0.8	1.2	1.2
Rated wind velocity, m/s	55	55	55	55
Radiator	copper	copper	copper	copper
Radome			grey, ABS	
Mounting	On a wall or on a mast with "Norma", CP-55D, CP-115, CP-220			
Connector	N-female on a cable	N-female	N-female on a cable	N-female

The subscribers' antennas SU-12D and SU-15D are assigned for the street application at constructing the DECT networks. Due to their construction (the antenna's array consists of passive and active "patch" elements) these antennas possess an increased gain and provide a reliable communication facilities for any distant subscriber. The antennas have a cable output what is very convenient for the encapsulating of the connector and for antenna mounting both on the pipe and on the wall of the building. For connecting the antenna to the base station or to the DECT-repeater we suggest you to use the feeders and the jumpers of our production which are specially designed for the energy transmission with the minimum losses.

