

AWS20-050-MIMO-19

20 degrees patch antenna 3x3 MIMO, 4.9 – 6.1 GHz
Azimuth and Elevation Adjustable Mount



3 Ports: Dual Slant ($\pm 45^\circ$) and Vertical Polarization
specially designed for MIMO applications for optimal decorrelation
light weight and durable construction
UV protected radome made of plastic
can be customized with customer defined back plane and different connector configurations



Specifications:

<i>Electrical</i>	
Frequency range	4.9 - 6.1 GHz
GAIN : Vertical Pol.	19 dBi
Dual Slant Pol	17.5 dBi
VSWR, max.	1.7 : 1
Polarization	Dual Slant $\pm 45^\circ$ and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant : 20° ; V- Pol 22°
3 dB Beam-Width-Elevation, typ.	Dual Slant : 19° ; V- Pol 14°
Side Lobes, min.	-12 dB
Front to Back Ratio, min.	-35 dB
Port to Port Isolation	-40 dB (Vertical to $\pm 45^\circ$ Dual Slant)
Port to Port Isolation	-30 dB ($+45^\circ$ Dual Slant to -45° Dual Slant)
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<i>Mechanical</i>	
Dimensions (HxWxD)	305 x 305 x 15 mm (12" x 12" x 0.6")
Connector	3 x N-Type Female
Weight	1.5 kg
Mounting	MNT-22
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation
<i>Environmental</i>	
Operating Temperature Range	- 55°C to + 65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11