



Directional Yagi with
 Standard wall mounting

Optional Swivel
 Pipe Mounting

DSRC Yagi Antennas Intelligent Transportation Services

- Slim attractive profile, 7.5" total length including mounting bracket
- High gain for efficient point to point
- Mounting bracket allows 45° vertical and horizontal adjustment

This high quality and reliable Yagi Antenna is designed specifically for DSRC at 5.9-6.0 GHz frequency range.

The YAG12 Series offers 12 dBi gain from 5.9-6.0 GHz. This makes the antenna very effective for applications such as mesh systems, point-to-point or point-to-multi-point.

These antennas can be used for a variety of V2I wireless applications that fall under the ITS (Intelligent Transportation Systems) umbrella including Smart Highways, Collision Avoidance and Tolling.

The antenna's compact profile and subdued white radome measures only 6.35" long x 2.75" high x .56" wide (16 cm x 7 cm x 1.4 cm). The slim profile makes this antenna aesthetically pleasing.

The radome is made from ASA, which resists discoloration by UV rays even if the product is exposed to many years of sunlight.

The mounting options for this antenna make it very versatile; from flat surface mounting to optional pipe mounting. Installation of this antenna is a breeze.

The unique adjustable mount has a 45° adjustable range both in the vertical range and the horizontal range. The antenna can handle up to 25 watts of power and provides coverage range of 55° horizontal beamwidth and 30° vertical beamwidth.

Cable assemblies are available including Low Loss -195, RG-58, LMR-240 and LMR-400. Choices of connectors include SMA, TNC, and N connectors.

Model #	Gain	Connector
YAG12-5900-3C-WHT-12	12 dBi	SMA Plug
YAG12-5900-3X-WHT-12	12 dBi	N Plug
YAG-PMK	Optional pipe mount	
For cable jumpers & other connectors, please contact your sales representative		

Specifications			
Frequency:	5.9-6.0 GHz	Adjustment:	Both vertical and horizontal adjustment up to 45°
Gain:	12 dBi	Radome Size:	2.75" H x 6.35" L x 0.56" W (7 cm x 16cm x 1.4 cm)
VSWR:	2:1 max over range	Size with mount:	2.75" x 7.5" x .56" (7cm x 19cm x 1.4cm)
Impedance:	50 Ohm nominal	Cable:	1 ft (30.5 cm) LL-195
Maximum Power:	25 Watts	Termination:	SMA Plug (male) or N Plug (male), others available
Beamwidth:	30° elevation, 55° azimuth	Shock & Vibration	EN 300 019-2-4, IEC 60068
Front-to-Back ratio:	Better than 15 dB	Water Ingress:	IPx5
Operating Temp:	-40°C to +85°C		
Lightning Protection:	External recommended		
Antenna Radome:	White ASA		
Weight:	.5 lbs (0.23 kg)		
Mounting:			
Standard	45° adjustable Swivel Wall Mnt.		
Optional	45° adjustable Swivel Pipe Mnt.		