

617-6000MHz Cell 4x4 MIMO, GPS, 6 Ports Low Profile Transport Antenna, 5G Ready, with Optional Rubber Duck Antenna for VHF, UHF or Other Bands

EAM6-4C1G1-r-xx series antennas are low profile antennas designed for transit applications. The aerodynamic and low-profile heavy duty radome assembly meets the requirements for a variety of vehicles, including cars, buses, trucks, trams and trains. Four of its six ports cover 617-960/1690-6000MHz full frequency ranges for all cellular networks and are MIMO ready for 4G and 5G systems. Its another port supports GPS/GNSS with built in 26dB gain LNA. The unit comes with customizable pigtail lengths and connectors to perfectly fit your installation requirements. EAM6-4C1G1-r-xx comes with an external antenna port which can be used to plug in a VHF, UHF, 800 or 900MHz band rubber duck antenna with SMA male connector for two way radio communications. The antenna is designed for installation on a solid flat surface with one lock nut and O-ring. The self-adhesive EVA pad on the bottom of the antenna provides additional protection from vibration and water ingress. Only one mounting hole for M25 bolt is needed on the surface.



Model Number		EAM6-4C1G1-r-xx	
Port-1, 2, 3&4 (4xCell)	Frequency range	617-960MHz/1690-6000MHz	
	Gain	617-960MHz	1690-6000MHz
		4.0dBi	6.0-8.0dBi
	Port-Port Isolation	≥10dB	
	VSWR	2.0:1	
	Polarization	Vertical	
	Power Rating	≤25W CW per port	
	Impedance	50Ω	
	Cable length	RG58, typical 6ft, 10ft or 17ft. Order xx=06, 10, and 17 for 6ft, 10ft, and 17ft cable respectively.	
Connector type	4xSMA male, other connector options available.		
Port-5 (GPS/GNSS)	Frequency range	1562-1612MHz	
	VSWR	2.0:1	
	Gain	3dBi passive gain +26dB typical LNA gain	

	Noise Figure	≤2.7dB typical
	Out of Band Rejection	≥40dB @+/-100MHz
	Power Supply Voltage	3-5VDC
	Typical current	15mA
	Polarization	RHC
	Cable length	RG174, typical 6ft, 10ft or 17ft. Order xx=06, 10, and 17 for 6ft, 10ft, and 17ft cable respectively.
	Connector type	1xSMA female, other connector options available. MOTO connector option available upon request.
Port 6 (Rubber Duck Antenna)	r=0	EAM6-4C1G1-0-xx, no external rubber duck antenna included
	r=v	EAM6-4C1G1-v-xx, VHF band rubber duck antenna included
	r=u	EAM6-4C1G1-U-xx, UHF band rubber duck antenna included
Dimensions		7.48"x2.36"x2.76" (190mmx 60mmx70mm)
Radome material		UV stabilized ABS
Radome color		White(standard), Black option is available upon request.
Mounting method		One through hole Φ22mm, solid flat surface
Weather proofing		IP69K
Operating temperature		-40 - +70 °C

Rubber Duck Antenna Options



EAM6-4C1G1-v-xx	Frequency range	138-174MHz
	Antenna Length	8.5"(190mm)
	Connector Type	SMA male
EAM6-4C1G1-U-xx	Frequency range	405-512MHz
	Antenna Length	6.0"(152mm)
	Connector Type	SMA male