



tetra antennae solutions

2J antennae for a secure world



COMING SOON



	2J0710	2J6507B	2J6510B	2J757B
				
Coming to extend our whip range this short antenna is suitable for use with hand-held Tetra radios or PMR. The coiled radiator reduces overall length while the mating thread can be selected from M4, M5 and M6 metric threads.	Low profile antenna which can be mounted on vehicle roofs or is suitable for fixed site installation. It is equipped with active GPS element and the robust construction with the high quality sealing gasket, which provides IP67 water/dust ingress rating.	Our new release designed with the durability in mind. With its discrete but rigid body this antenna is suitable for mounting on vehicles but also for fixed site installation in car parks, security offices, etc.	Body mount combined active GPS antenna with 1/4 wave tetra whip antenna. The straight whip maximizes efficiency and gain due to its 90° angle to the ground plane. Robust construction provides IP67 water/dust ingress rating.	

frequency	380-500 MHz Tetra	380-500 MHz Tetra, 1575.42 MHz GPS	380-500 MHz Tetra	380-500 MHz Tetra, 1575.42 MHz GPS
nominal impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
polarization	vertical	horizontal (Tetra) / RHCP (GPS)	horizontal	vertical (Tetra) / RHCP (GPS)
gain	2dBi	0dBi	0dBi	2dBi
VSWR	<4:1; <2:1 at 433 MHz	<2:1	<2:1	<2:1
voltage supply	-	2.7V - 5V	-	2.7V - 5V
dimensions	62mm x 13.2mm (dia)	100mm (dia) x 25mm	100mm (dia) x 25mm	54mm (dia) x 200mm (not including stud)



OVERVIEW



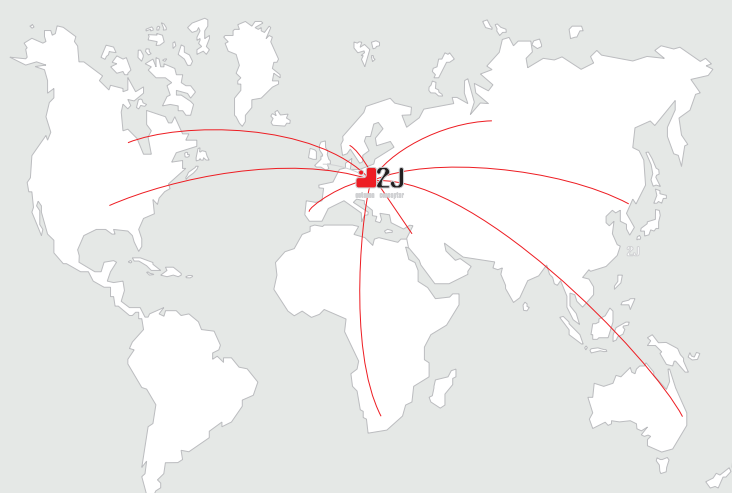
www.2j-antennae.com

EMERGENCY SERVICES	PMR			
CUSTOMISED MATCHING DESIGN	RESPONSE ENGINEERING	3D MODELING	RAPID PROTOTYPING	TOOLING
MACHINE TO MACHINE & ISM BANDS	VEHICULAR MACHINES			
TETRA	PCN / W-LAN WIRELESS	PLASTIC INJECTION has capacity and tools	PICK AND PLACE	DEVELOPMENT AND TESTING
FLEET MANAGEMENT	GPS GPS			
PCN & ISM BANDS	DATA TRANSMISSION	FAKRA G FEMALE - 10 cm RG174-MCX FEMALE	U.FL - 7 cm cable dia 1.13 SMAF BULKHEAD	MMS MALE, 90 °C - 10 cm RG 178 - SMAF BULKHEAD
WIRELESS LAN	UTILITY DATA TRANSMISSION	*cable and connectors per request		
MARINE	PLUGS & CABLES			
PORTABLE ANTENNAS	MOBILE COMMUNICATION			
CONSUMER WIRELESS	TOOL MAKING			
	PLASTIC MOULDING			



antennae solutions

research • development • production



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COMBINED



2J615B
Most discrete low profile GPS+Tetra antennae on the market. It can be mounted on vehicle roofs and even on slightly curved panels thanks to its thick adhesive mounting pad. It is available in range of colours.

2J857B
Sleek Body-mounted high performance roof antenna, ideal for public sector vehicles combining filtered active GPS antenna with angled 1/4 wave Tetra whip. This antenna is on offer in a range of colours (i.e. red for fire-service).

2J858BG
Same housing as 2J857, combining filtered active GPS/GLONASS antenna, angled 1/4 wave Tetra whip and internal GSM antenna. This compact antenna saves space and installation time.

2J855B
This antennae offers combination of Tetra 1/4 wave whip and internal WIFI antennae. Antennas from 2J855B series are IP67 certified and mounting feature is designed according to automotive industry standard.

frequency	380-500 MHz Tetra, 1575.42 MHz GPS	380-500 MHz Tetra, 1575.42 MHz GPS	1572 - 1610 MHz Glonass 380 - 500 MHz Tetra, 1575.42 MHz GPS	380-500 MHz Tetra 2.4 GHz WIFI/BLUETOOTH
nominal impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
polarization	horizontal (Tetra) / RHCP (GPS)	vertical (Tetra) / RHCP (GPS)	Tetra: vertical; GPS/Glonass: RHCP	vertical
gain	0dBi	GPS: 27dB at 5V, Tetra: 2dBi (max.)	GPS/Glonass: 27dB at 5V Tetra: 2dBi (max.)	Tetra: 2dBi (max), WiFi: 2dBi (max.)
VSWR	<2:1	<2:1Tetra; <1.2:1 GPS	<1.2:1 GPS/Glonass;<2:1 Tetra	<2:1
voltage supply	-	2.7V - 5.5V (GPS)	2.7V - 5.5V (GPS)	-
dimensions	80mm x 75mm x 15.5mm	92mm x 52mm x 157mm	max. 92mm x 52mm x 157mm	92mm x 52mm x 157mm



MAGNETIC & PATCH



2J340M
This magnetic-base mount antenna features a small mounting surface area, allowing it to be mounted quickly in inaccessible locations. The antenna can be used for temporary or semi-permanent installations.

2J330M
This magnetic-base mount antenna is a higher gain version of the 2J340M, developing 5dBi gain for the Tetra band, while maintaining the advantage of having a small footprint.

2J500L
If you are in search for a discrete simple to apply antenna with exceptional omni-directional radiation look no further. Our 2J500L is ideal for fixation onto glass or plastic surfaces.

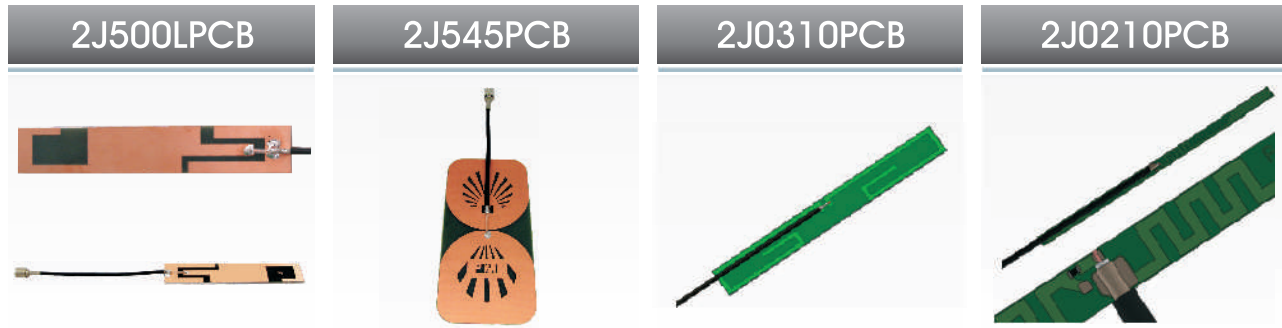
2J530
Unique glass mounted antenna construction with flexible dipole radiators, which can be hidden within the rubber seals surrounding a windscreen. The 60 MHz bandwidth can be tuned anywhere within the Tetra Band.

2J545
Patch mount antenna which can be mounted in conventional locations such as windscreens or dashboards, but can also be mounted in more covert locations such as within a vehicle (non-metallic) bumper.

frequency	380-500 MHz Tetra 2.4 GHz WIFI/BLUETOOTH	380-500 MHz	Tetra (380-500 MHz) GSM (900 MHz) AMPS (824-894 MHz) PCS (1900 MHz) PCN (1800 MHz) WIFI/BLUETOOTH (2.4 GHz) 3G (UMTS 2.1 GHz) GSM (868 MHz)	Tetra (380-500 MHz) GSM (900 MHz) AMPS (824-894 MHz) PCS (1900 MHz) PCN (1800 MHz) WIFI/BLUETOOTH (2.4 GHz) 3G (UMTS 2.1 GHz) GSM (868 MHz)	Tetra (380-500 MHz) GSM (900 MHz) AMPS (824-894 MHz) PCS (1900 MHz) PCN (1800 MHz) WIFI/BLUETOOTH (2.4 GHz) 3G (UMTS 2.1 GHz) GSM (868 MHz)
nominal impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
polarization	vertical	vertical	vertical	horizontal	vertical
gain	Tetra: 2dBi, WiFi: 5dBi (max.)	5dBi	2.2dBi	0dBi	2.14dBi
VSWR	<2:1	<2:1	<2:1	<2:1	<2:1
power handling	25W	-	25W	50W	35W
dimensions	165mm x 31mm (dia)	410mm x 29mm (dia)	126.5mm x 22mm x 5 - 7mm	52mm x 13mm	111.5mm x 59mm x 5.5 - 11.5mm



EMBEDDED



2J500LPCB
This internal antenna exhibits exceptional omni-directional radiation while being discrete and simple to apply. Its small size makes it unique on the market.

2J545PCB
This PCB provides very good performance for the whole Tetra Band. It can be enclosed in plastic housing and is very suitable for discreet mounting in vehicle bumpers or other covert locations.

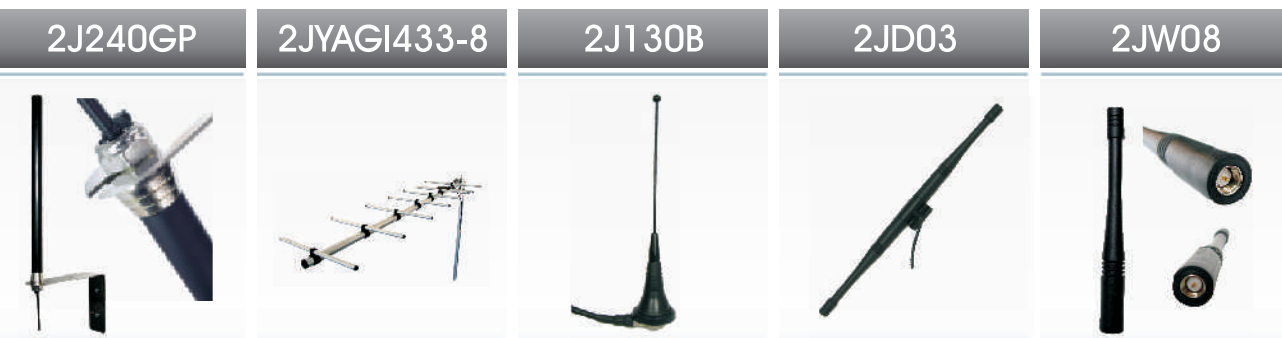
2J0310PCB
This PCB dipole can be fixed discretely onto glass or plastic surfaces. The center frequency of the antenna can be altered to suit any specific Tetra Band. *An optional diagnostic resistor can be fitted if required. *9k1 resistor can be placed across antenna feedpoint, in order to use antenna detection features available with some receiver modules.

2J0210PCB
This PCB dipole antenna can be fixed discretely onto glass or plastic surfaces within vehicles or fixed installation. The cable can be mounted so that it is perpendicular to the PCB or parallel for slimline assembly.

frequency	Tetra (380-500 MHz) GSM (900 MHz) AMPS (824-894 MHz) PCS (1900 MHz) PCN (1800 MHz) WIFI/BLUETOOTH (2.4 GHz) 3G (UMTS 2.1 GHz) GSM (868 MHz)	AMPS (824-894 MHz) GSM (900 MHz) 3G (UMTS) 2.1 GHz WIFI/BLUETOOTH (2.4 GHz) PCN (1800 MHz) DCS1800 (868 MHz)	433 MHz +/- 30 MHz	380-500 MHz Tetra
nominal impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
polarization	vertical	vertical	linear	linear
gain	2.2dBi	2.14dBi	2.14 dBi	2.14 dBi
VSWR	<2:1	<2:1	<2:1	<2:1
power handling	25W	35W	-	-
dimensions	20mm x 115mm x 1.2mm	105mm x 52mm x 1.2mm	160mm x 20mm x 0.8mm	228mm x 10mm x 0.8mm



SPECIAL APPLICATIONS



2J240GP
Our omni directional base station dipole can be wall mounted at fixed installation sites. The stainless steel bracket fixes the radiator at a distance from the wall to minimise reflections. It is also available in white colour.

2JYAGI433-8
Base Station Yagi antenna can be used for fixed site installations, where there is clear line-of-sight between transceivers. This antenna is available with alternative number of elements, offering a range of gains and beam widths.

2J130B
Standard through-hole body-mounted base antenna, with 1/4 wave radiator can be mounted on public sector vehicle roofs or bonnets. It is also available with detachable cable assembly to aid installation.

2JD03
Dipole antenna which can be mounted vertically or horizontally onto a wall or onto a fixing bracket to provide some clearance. It can be easily tuned to any center frequency within the Tetra Band.

2JW08
Flexible rod antenna used for two-way mobile radio, or for fixed site control application such as security gates or cameras. The antenna element is a coiled 1/4 wave radiator. The antenna is terminated with an SMA plug.

frequency	380-500 MHz Tetra	433 - 470 MHz Tetra	380-500 MHz Tetra	Tetra (380-500 MHz) 240 - 2.4 GHz 3G (UMTS 2.1 GHz) GSM (868 MHz)	380-500 MHz Tetra Bandwidth FO +/- 20 MHz
nominal impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
polarization	vertical	horizontal	vertical	horizontal/vertical	vertical
gain	2.14 dBi (max.)	12 dBi (max.)	0 dBi	2.14 dBi	2 dBi
VSWR	<2:1	<2:1	<1.5:1	<2:1	<2:1
power handling	-	150W	100W	50W	-
dimensions	285mm x 16.5mm (dia)	Beam Width (vertical) 50 °C	175mm x 30mm	29.2mm x 30mm x 14mm	133mm x 9.7 - 12.9mm