

SK0200290 'Mallard' 4-in-1 Antenna Black incl. 5m Coax Cables - TETRA

5 YEARS WARRANTY



The '**Mallard**' is a low-profile, multifunction antenna designed for blue-light and amber-light vehicle fleets, combining up to 9 functions within a single panel-mounted unit. With optional fitting kits, the 'Mallard' can be installed using the existing OEM mounting hole, preventing the need to drill additional holes and maintaining OEM functions.

This variant supports **4 Functions** including **TETRA, 2x WiFi and 1x GPS**

Also Available in White: Part No. SK0200350



Part No.	Cable Kit Options
SK0200180	Product Kit : Black 4 in 1 Mallard Antenna & 5m Coax Ext Cable Kit : Terminated Cables
SK020401	Product Kit : Black 4 in 1 Mallard Antenna & 5m Coax Ext Cable Kit : CM Specialist : Terminated Cables

Additional options available upon request.

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Technical Specifications

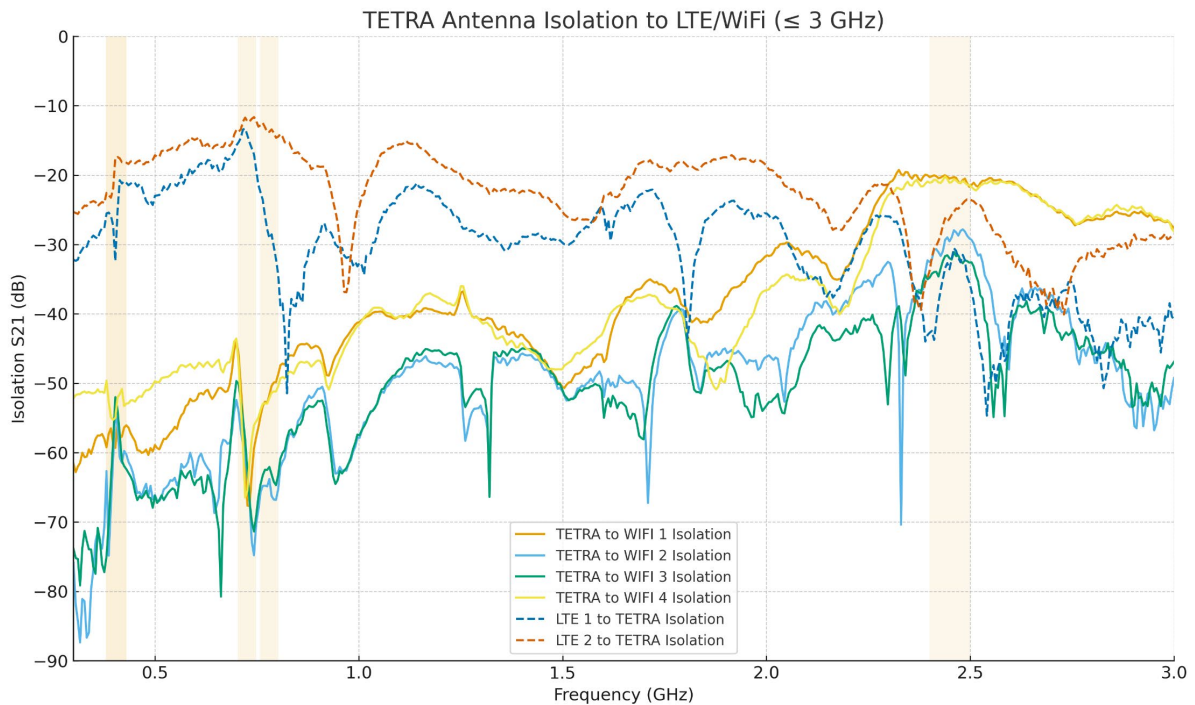
Part No.	SK0200290	
Electrical Data	TETRA	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz	2.4 GHz & 5.8GHz
Band	TETRA	2x2 MiMo Dual Band Wi-Fi
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1
Gain	5dBi	Minimum 4dBi
Isolation	-	<-25dB
Polarisation	Vertical	Vertical
Pattern	Omni-directional	Omni-directional
Impedance	50Ω	50Ω
Max Power Input (W)	25W	10W
GPS/GLONASS		
Frequency Range (MHz)	1562-1612	
VSWR	<2:1	
Gain	26dB	
Polarisation	Right Hand Circular	
Operating Voltage	3-5v DC (fed via coax)	
Cable	2x 230mm RG316 Terminated to SMA (m)	
Mechanical Data		
Dimensions (mm)	H80xW70xL230 *	
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)	
Material	ABS/PC	
Colour	Black	
Weight (g)	310	
Ingress Protection	IP66	
Cable Data		
Cable Type	RG316	RG316
length	280mm	200mm
Diameter	2.8	2.8
Termination	TNC (f)	SMA (m) Reverse Polarity
Mounting Data		
Mounting Type	Panel mount	
Mounting Hole (mm)	15mm	
Max Panel Thickness (mm)	10mm	

Subject to change without prior notice. *Excluding external antenna

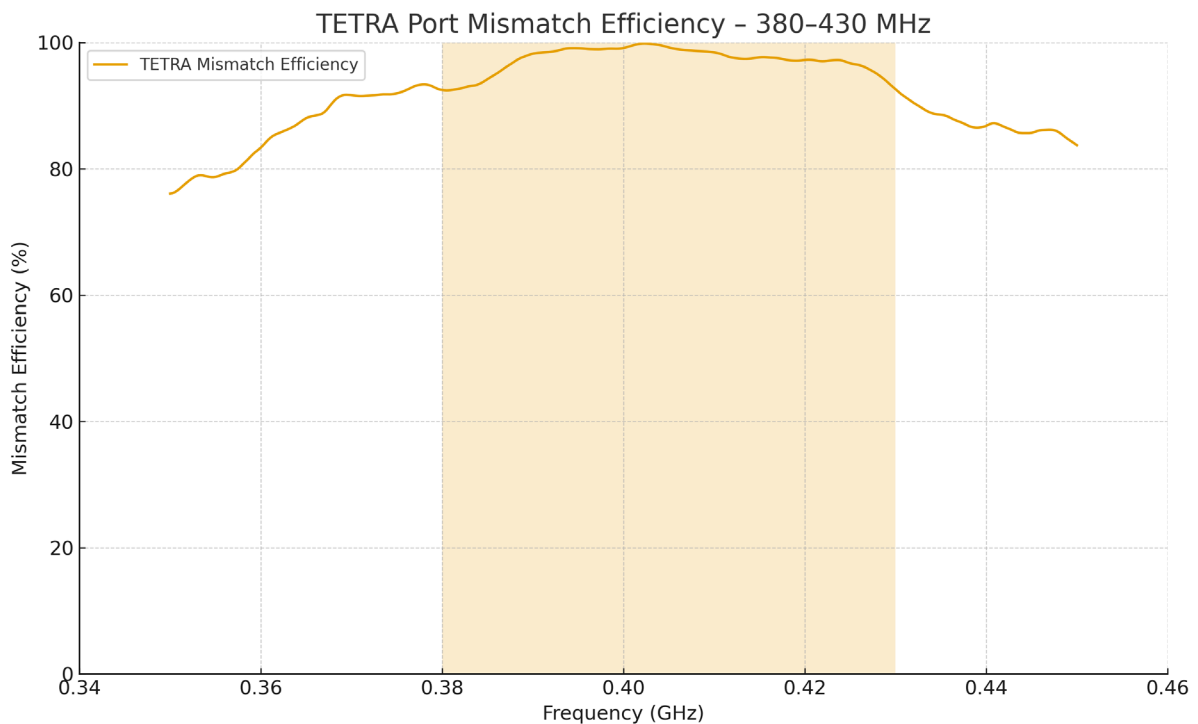
Coax Cables	2x Wi-Fi		1x TETRA	1x GPS
Cable Type	SBC240		SBC195	SBC100
length	5m or 3m		5m or 3m	5m or 3m
Diameter (mm)	6.1		4.95	2.8
Min. Bend Radius (mm)	30		25	14
Operating Temp. °C	-40-80		-40-80	-40-80
Termination	SMA Reverse Polarity (m)		BNC (m)	SMA (m) – Motorola and Sepura adaptors supplied.
Labeling	Wi-Fi M & Wi-Fi A	TETRA		GPS TETRA

The diagram illustrates a 5m extension cable setup for a vehicle antenna. A black antenna unit is shown on the left, connected to four yellow cables. These cables are labeled with colored tags: GPS 1 (blue), EXT (yellow), SWR 1 (red), and SWR 2 (red). The cables extend to the right, where they are connected to various components. The top two cables are connected to SMC GPS Adaptors and FME GPS Adaptors, respectively. The bottom two cables are connected to 5m Extension Cables. The extension cables are labeled with their part numbers: SCT50TS1-05000-LBC100, SCTT1TB1-05000-LBC195, SCT05T1S-05000-LBC240, and SCT05T1S-05000-LBC240. The cables are terminated with various connectors, including SMA and FME connectors.

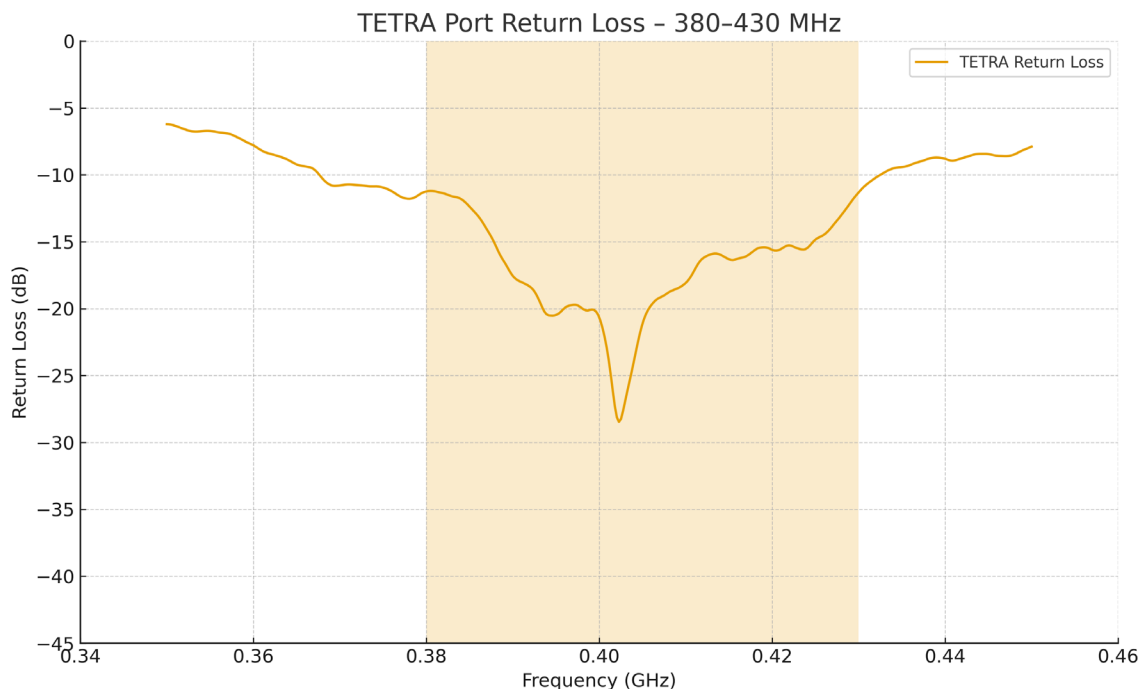
TETRA to LTE/Wi-Fi Isolation



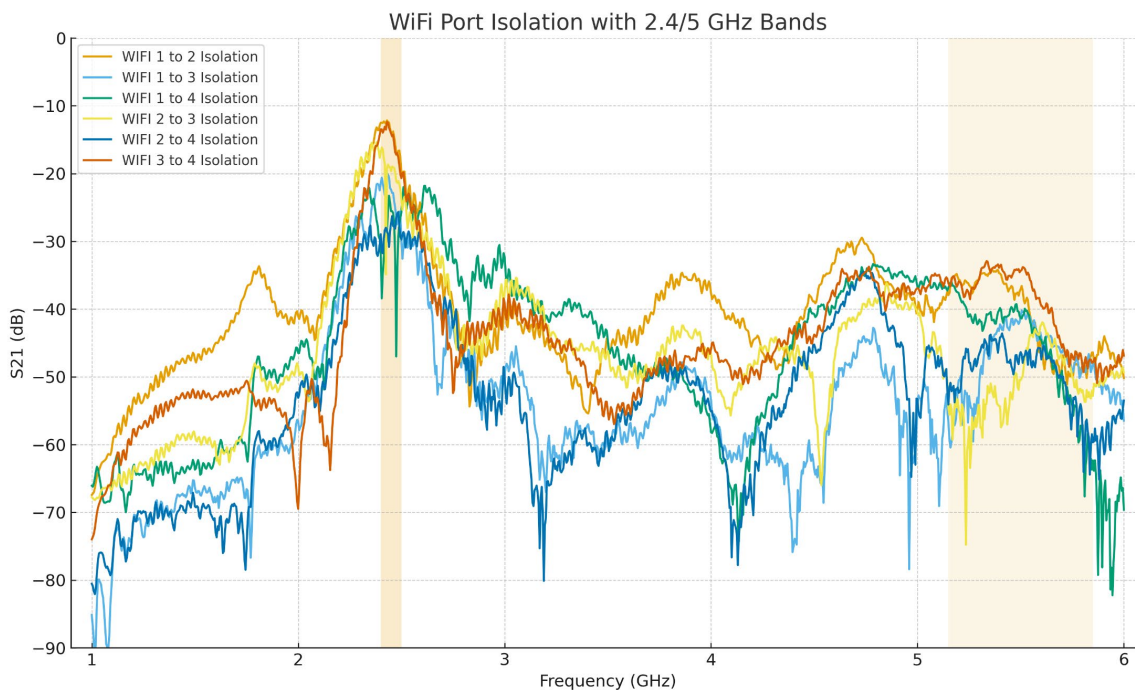
TETRA Port Mismatch Efficiency



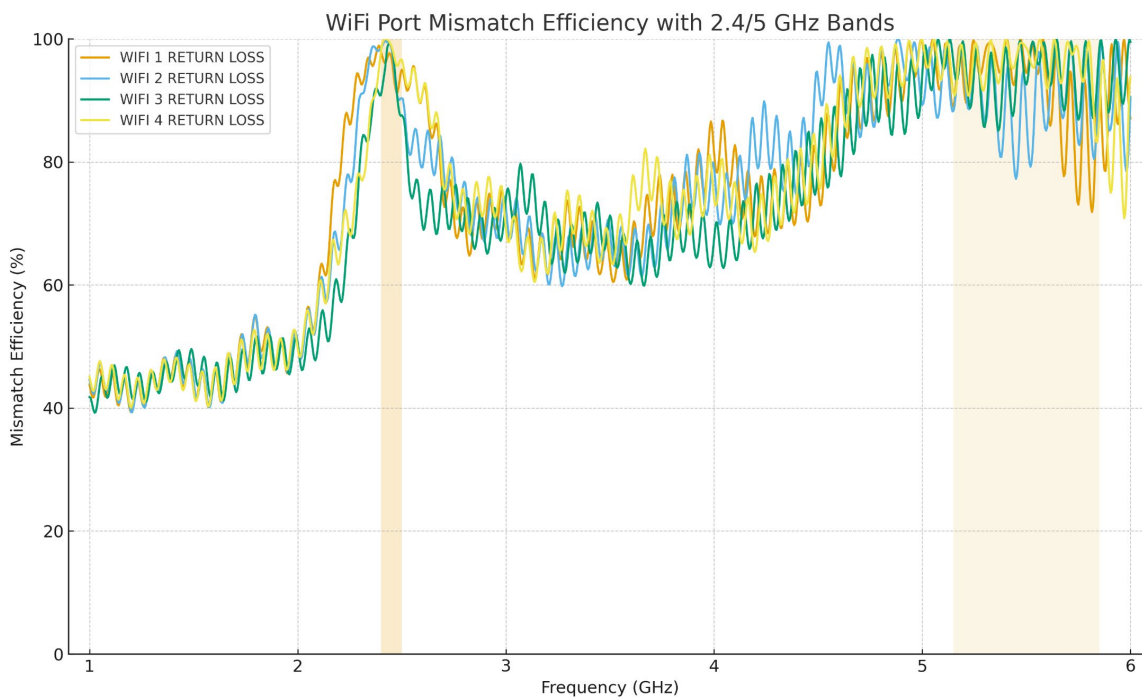
TETRA Port Return Loss



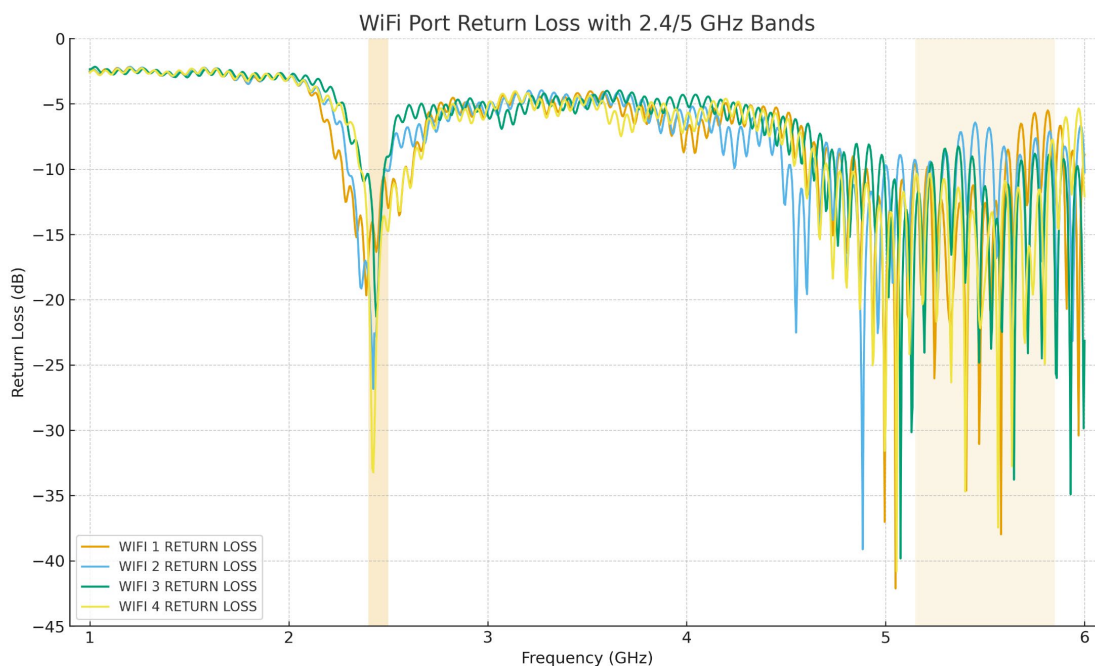
Wi-Fi Port Isolation



Wi-Fi Port Mismatch Efficiency



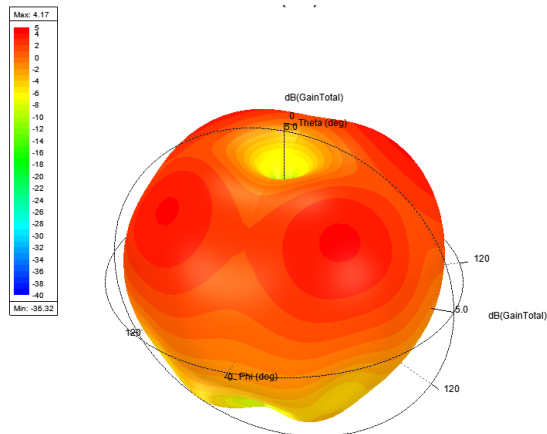
Wi-Fi Port Return Loss



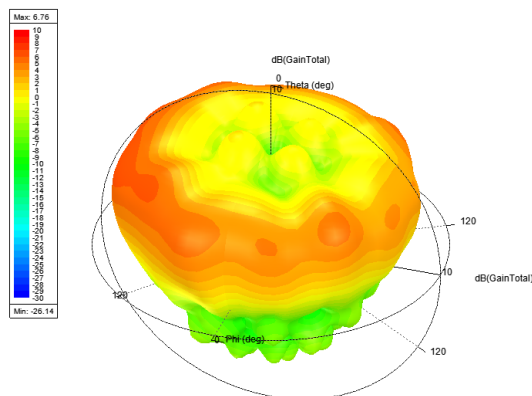
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Antenna 3D Gain Plots

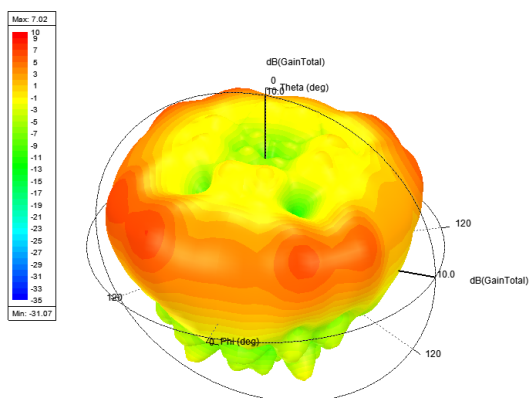
820MHz



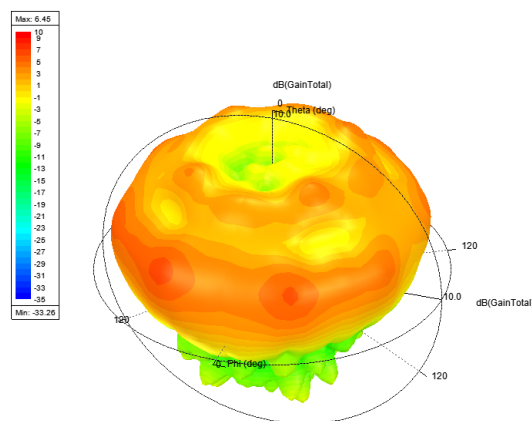
1820MHz



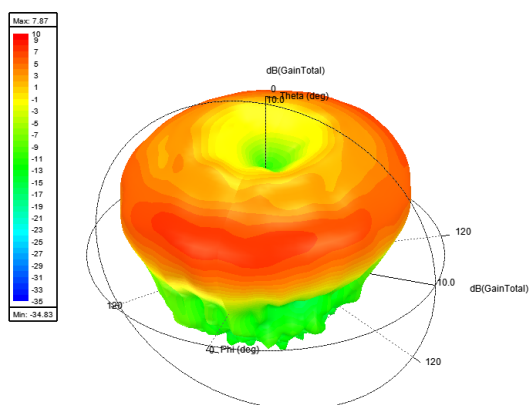
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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