

SK0200900 'Mallard' 8-in-1 Antenna Black incl. 5m Coax Cables - TETRA

SureAntennas®

5 YEARS WARRANTY



The 'Mallard' is a low-profile, multifunction antenna designed to **future-proof** blue-light and amber-light vehicle fleets, delivering **up to 9 functions** within a single, panel-mounted unit. This variant features **8 functions**.

With market leading isolation to **support ESN**, as well as your current **TETRA radio**, there is no need to drill multiple holes into your vehicle's roof due to **additional fitting kit options**.

The 'Mallard' supports **2x2 MiMo from 698MHz to 6GHz** with a minimum **4dBi gain** across the whole band. With the additional functionality of **4x4 MiMo 2.4/5.8GHz Wi-Fi function**, **2x GPS/GNSS Ports**, and **TETRA**, this antenna would be an ideal solution for future proofing your new vehicle installations for **ESN**.

With a single hole installation and a **wide frequency bandwidth** on offer, this antenna would help **reduce installation costs** and protect your vehicles resale value. For **other available cable options**, please **contact us**.

Also Available in White: Part No. SK0200910



Part No.	Cable Kit Options
SK0200106	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 6m Low Loss Coax Cables SMA five port Router & Airwave Radio
SK0200105	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 5m Low Loss Coax Cables SMA five port Router & Airwave Radio
SK0200103	BLACK 'Mallard' Shark Fin 8 in 1 Antenna : 2xLTE 2xGPS 3xWiFi 1xTETRA Inc 3m Low Loss Coax Cables SMA five port Router & Airwave Radio

Additional options available upon request.

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Technical Specifications

Part No.		SK0200900		
Electrical Data		TETRA	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz	2.4 GHz & 5.8GHz	
Band	TETRA	2x2 MiMo 2G 3G 4G 5G	3x3 MiMo Dual Band Wi-Fi	
VSWR	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	<2.1:1 TYPICALLY 1.5:1	
Gain	5dBi	Minimum 4dBi	Minimum 4dBi	
Isolation	-	<-25dB	<-25dB	
Polarisation	Vertical	Vertical	Vertical	
Pattern	Omni-directional	Omni-directional	Omni-directional	
Impedance	50Ω	50Ω	50Ω	
Max Power Input (W)	25W	10W	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	RG316	
length	280mm	160mm	200mm	
Diameter	2.8	2.8	2.8	
Termination	TNC (f)	SMA (f)	SMA (m) Reverse Polarity	
Mounting Data				
Mounting Type	Panel mount			
Mounting Hole (mm)	15mm			
Max Panel Thickness (mm)	10mm			

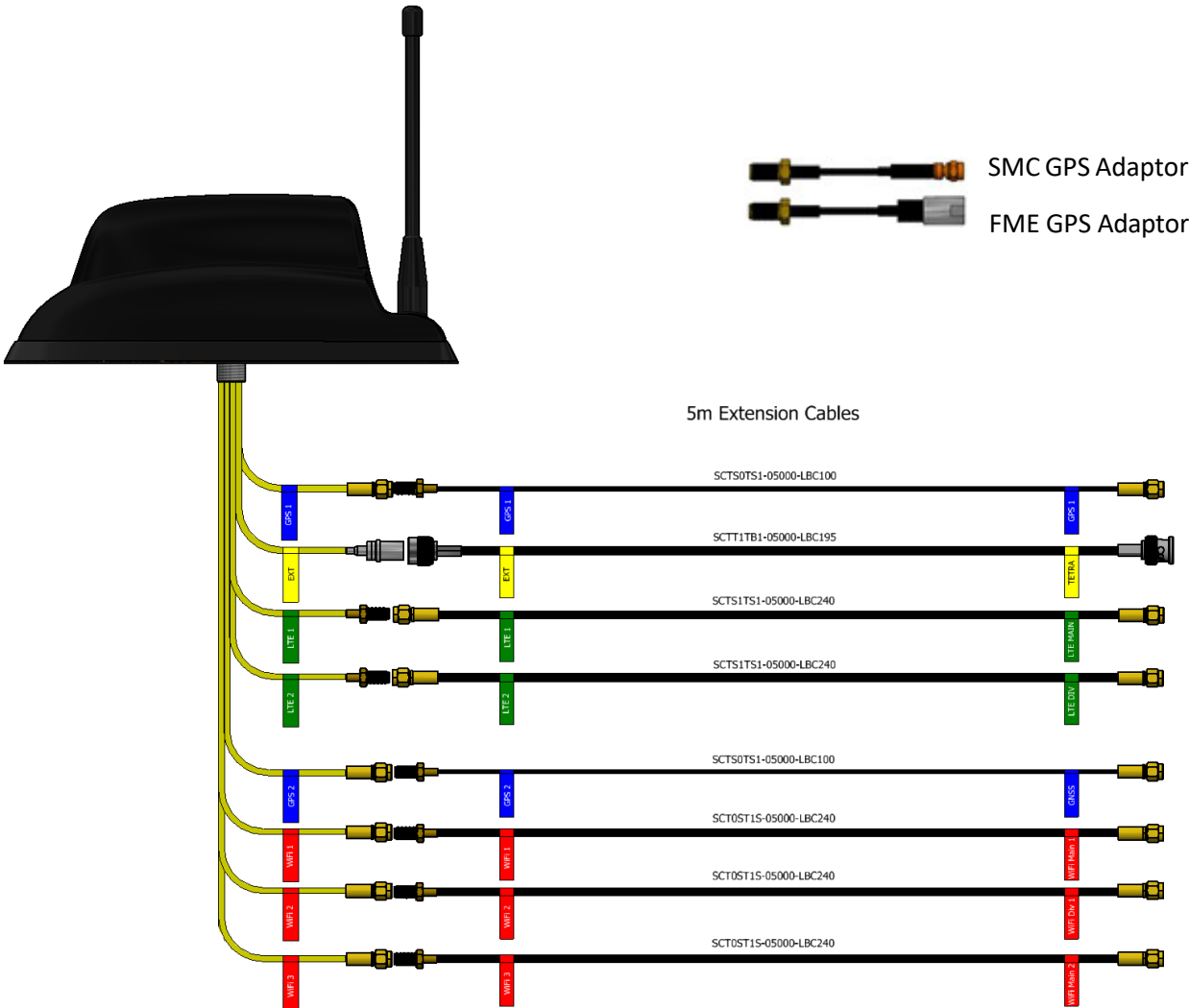
Subject to change without prior notice. *Excluding external antenna

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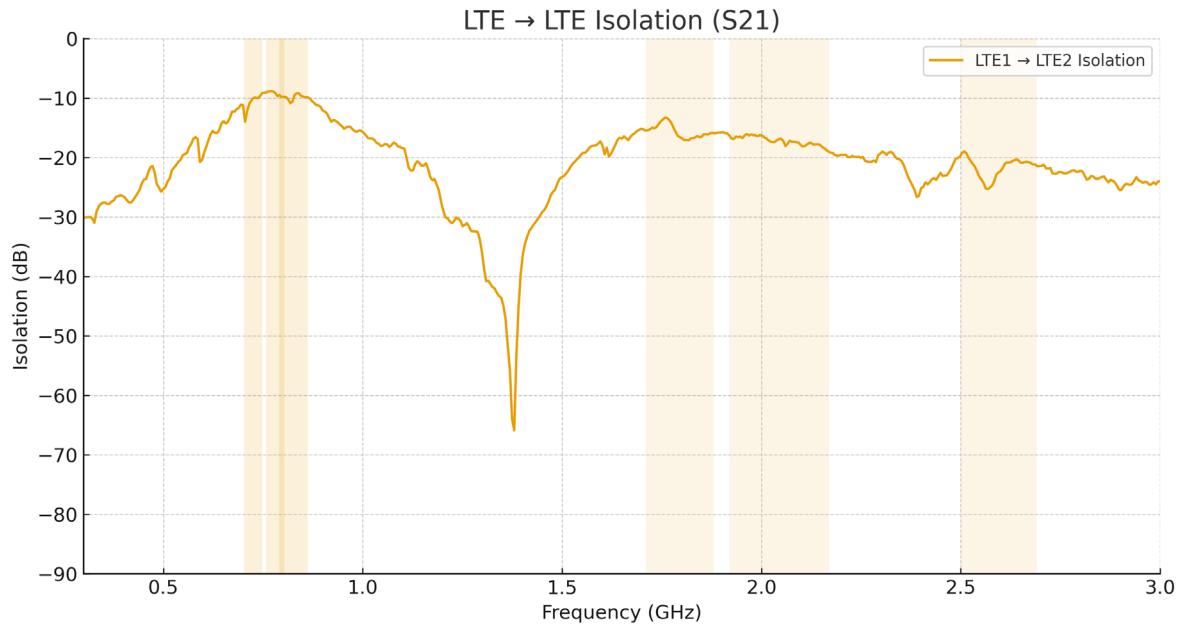
Supplied Coax Extension Cables

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

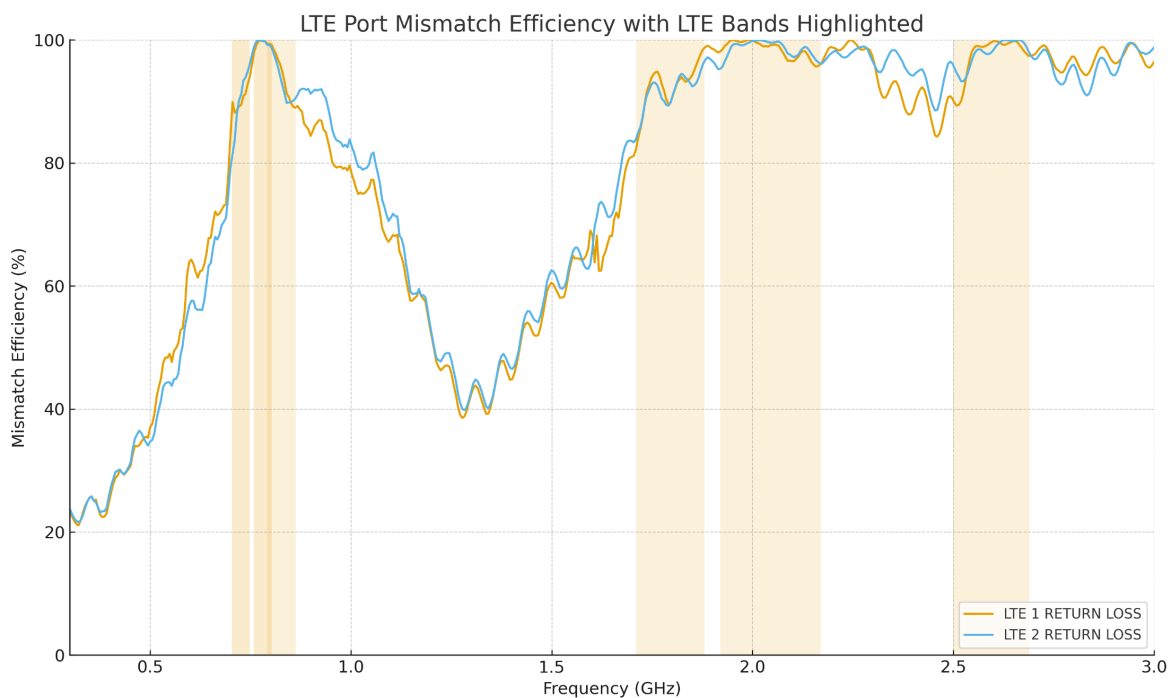
Cable Diagram



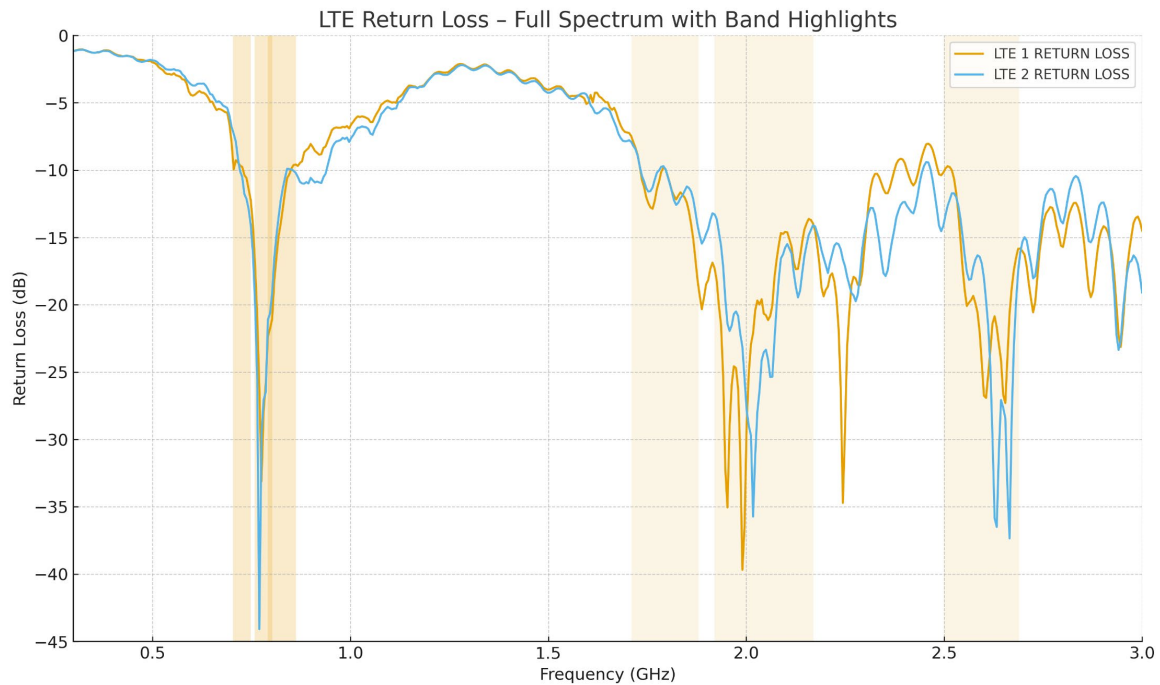
LTE Isolation



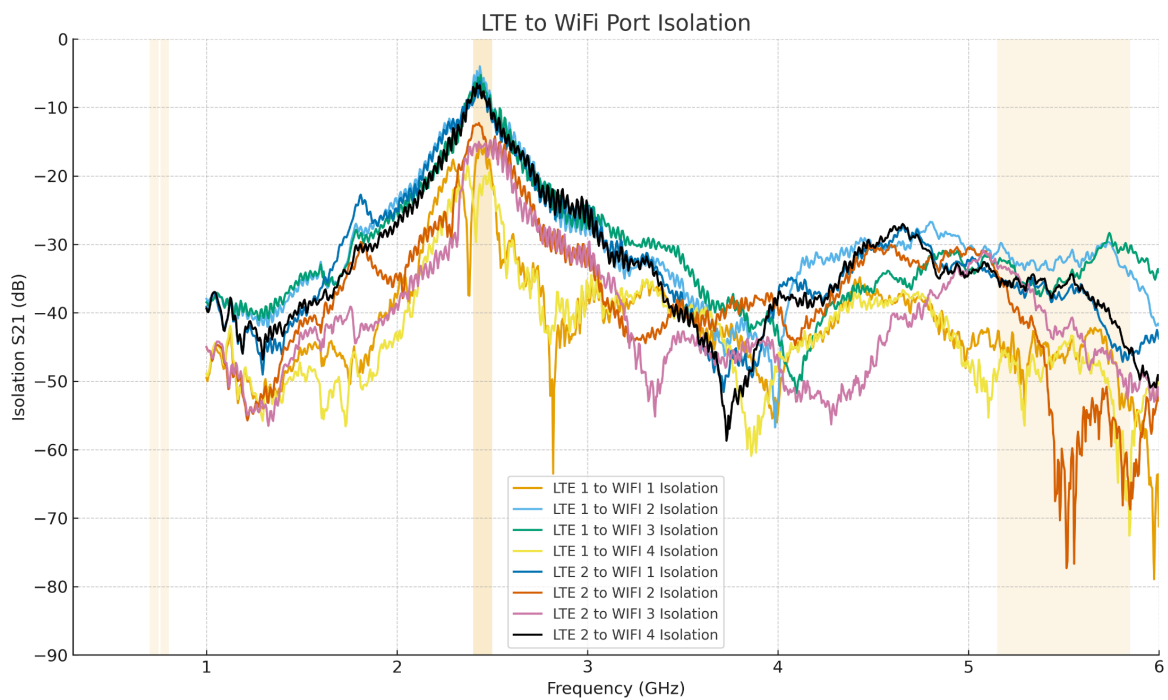
LTE Port Mismatch Efficiency



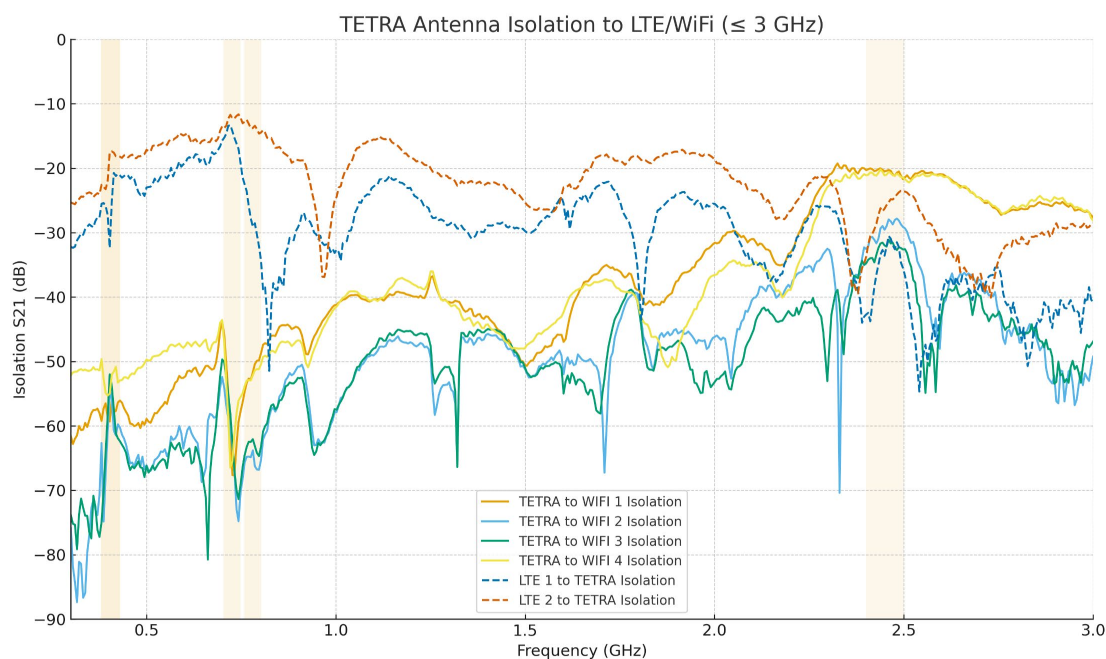
LTE Return Loss



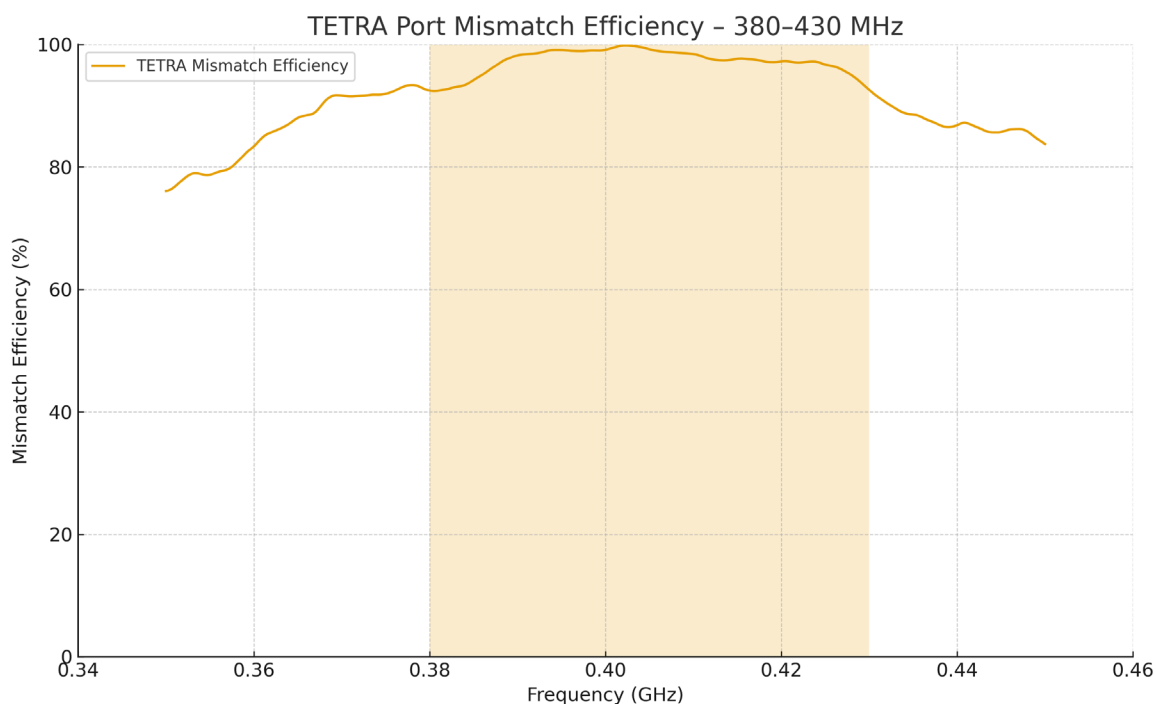
LTE to Wi-Fi Port Isolation



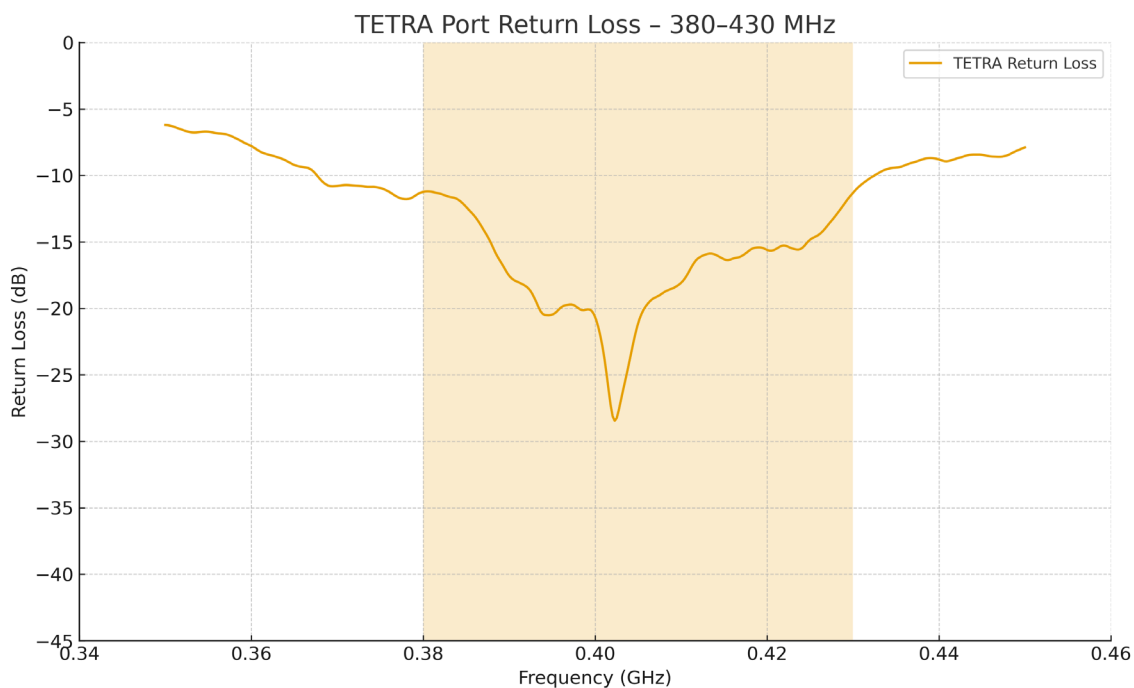
TETRA to LTE/Wi-Fi Isolation



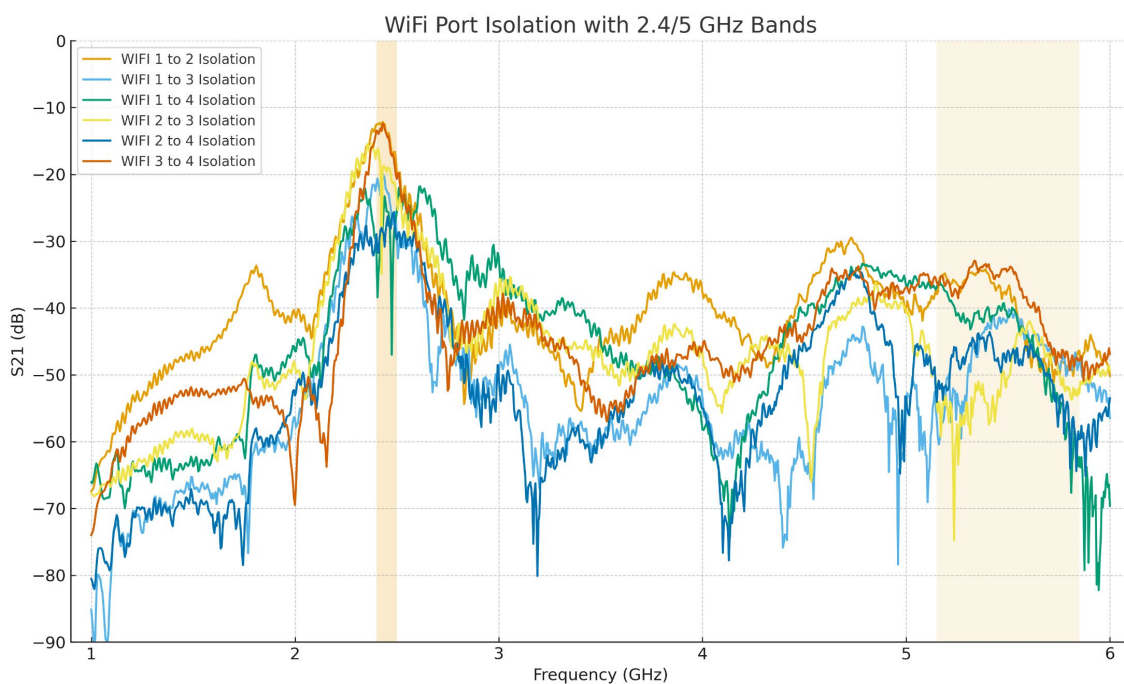
TETRA Port Mismatch Efficiency



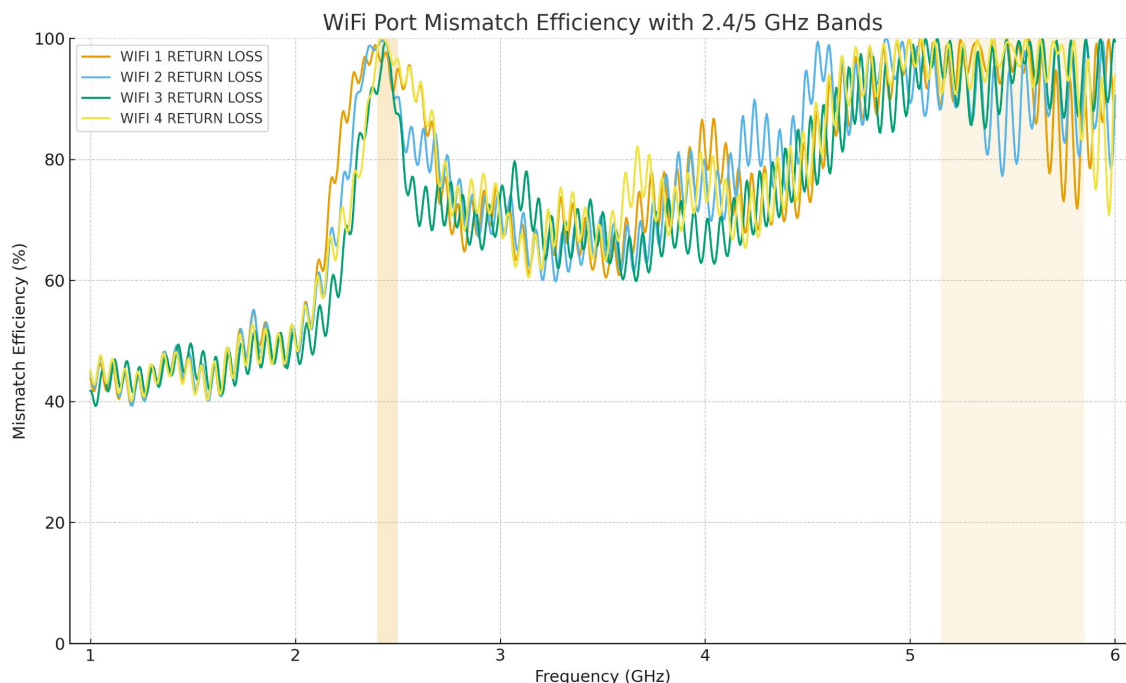
TETRA Port Return Loss



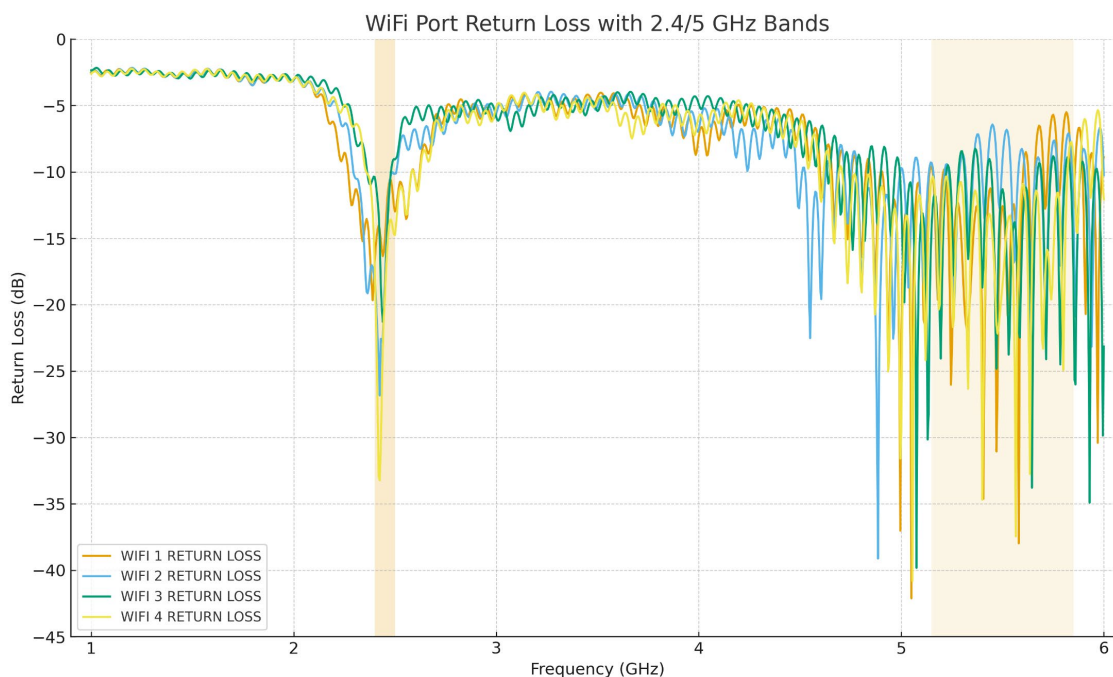
Wi-Fi Port Isolation



Wi-Fi Port Mismatch Efficiency

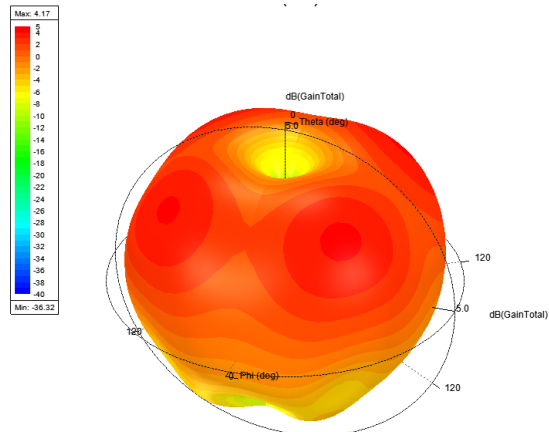


Wi-Fi Port Return Loss

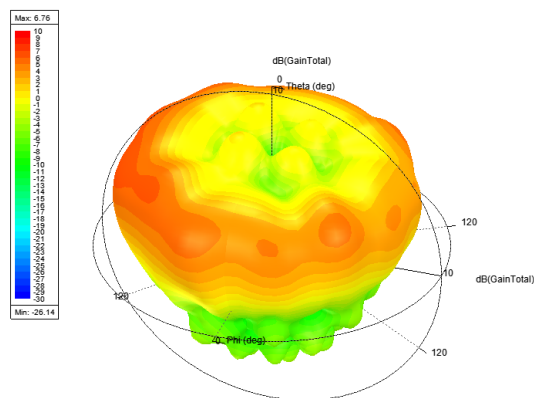


Antenna 3D Gain Plots

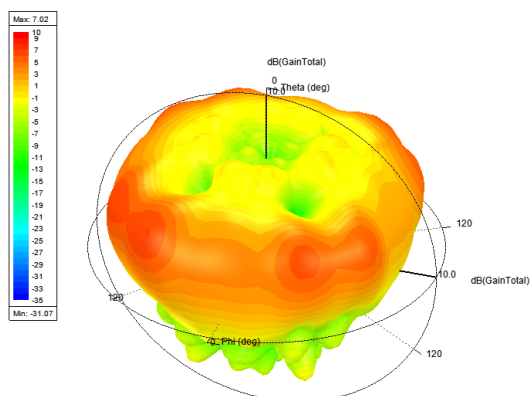
820MHz



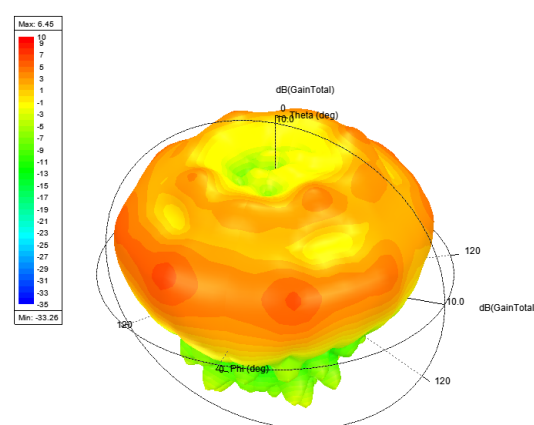
1820MHz



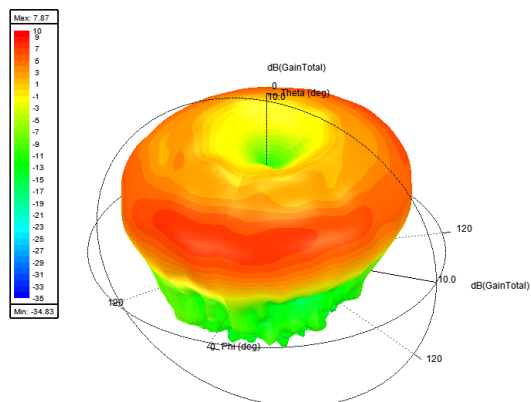
2140MHz



2600MHz



3600MHz



All graphs & diagrams subject to change without prior notice.

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