

# SK0200260 'Mallard' 7-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 **7 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. SK0200320**



Part No.	Cable Kit Options
SK021996	Product Kit : Sure Antennas Gloss Black Mallard 7 in 1 MiMo Antenna & 5m Router/ESN & Airwave Cable Kit
SK021990	Product Kit : Sure Antennas Gloss Black Mallard 7 IN 1 Antenna 7 x 4m Motorola & Sepura
SK021984	Product Kit : Sure Antennas Black Mallard 7 in 1 MiMo Antenna & 3m Router/ESN & Airwave Cable Kit

Additional options available upon request.

A brand of



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# SK0200260 'Mallard' 7-in-1 Antenna Black incl. 5m Coax Cables - TETRA

## Technical Specifications

Part No.		SK0200260		
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	2x2 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			

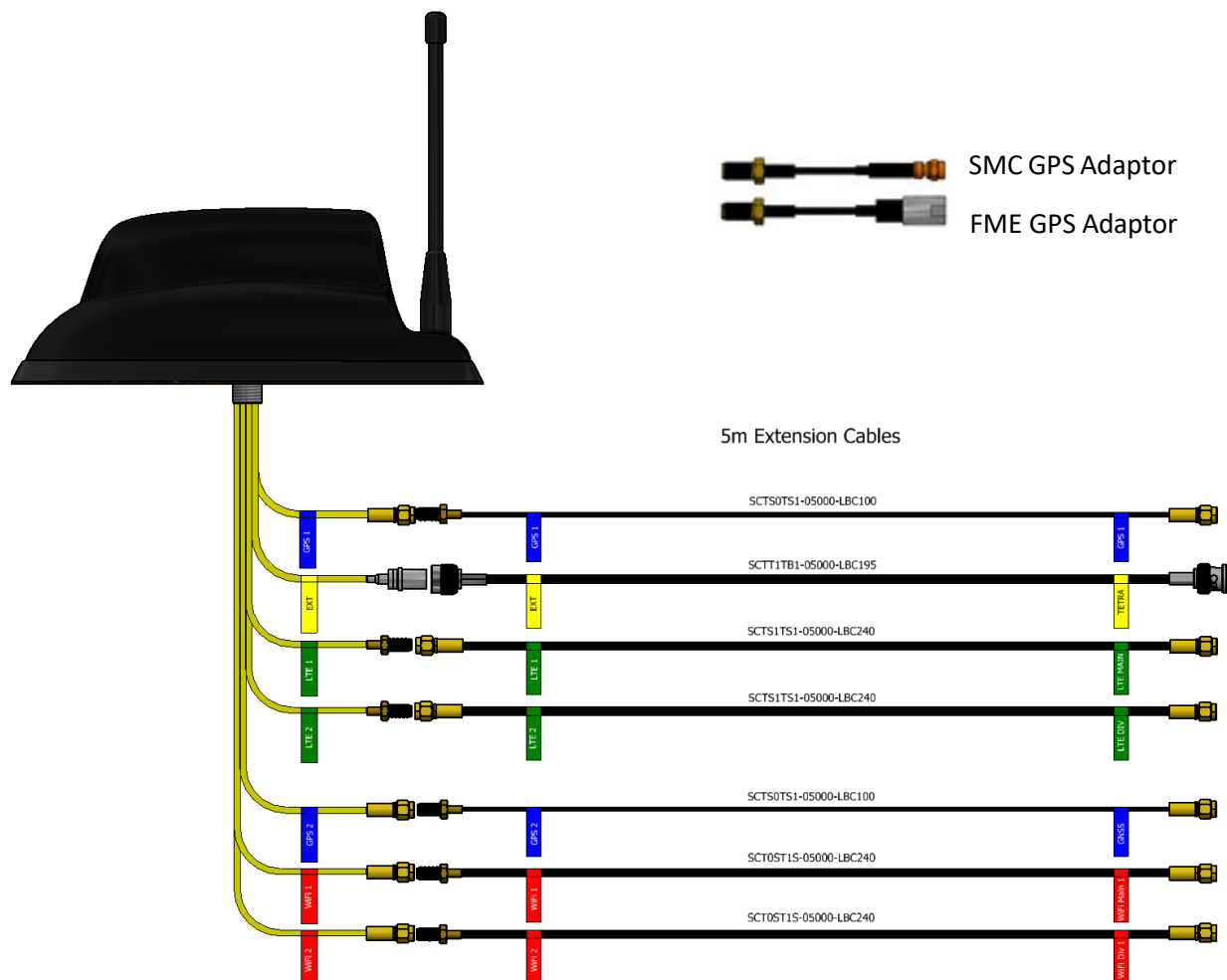
Subject to change without prior notice. \*Excluding external antenna

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## Supplied Coax Extension Cables

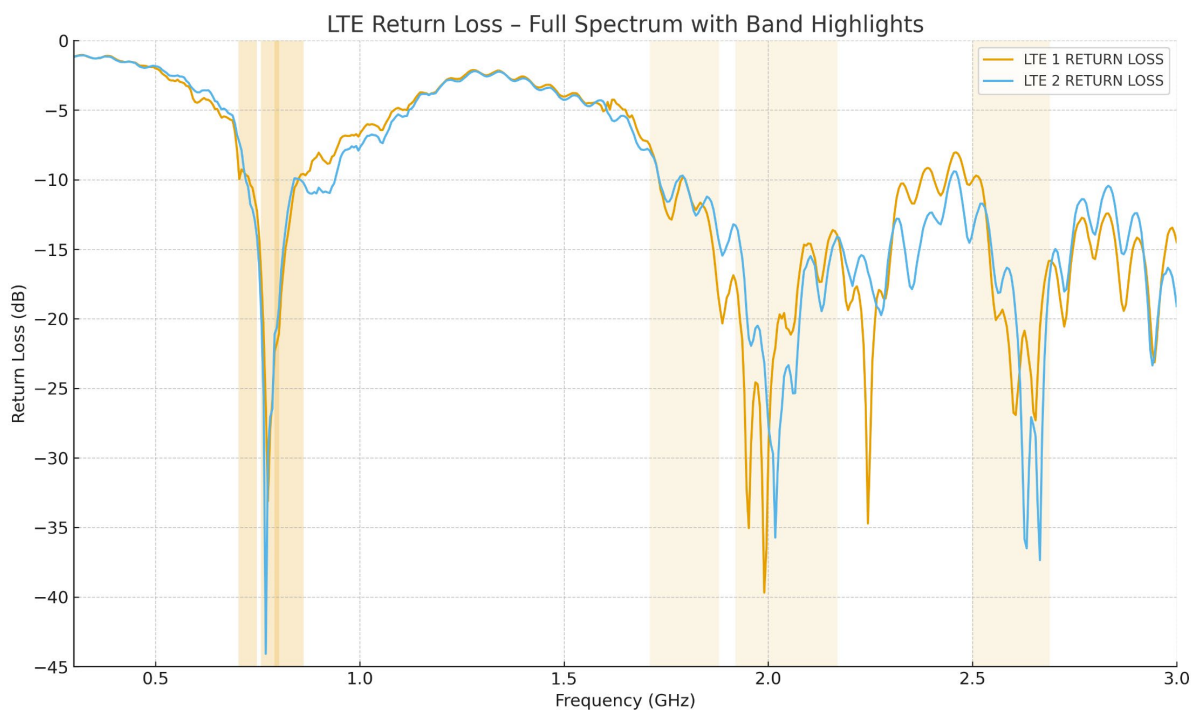
Coax Cables	2x LTE	2x Wi-Fi	1x GPS	1x TETRA	1x GPS
Cable Type	SBC240	SBC240	SBC100	SBC195	SBC100
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8	4.95	2.8
Min. Bend Radius (mm)	30	30	14	25	14
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse 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

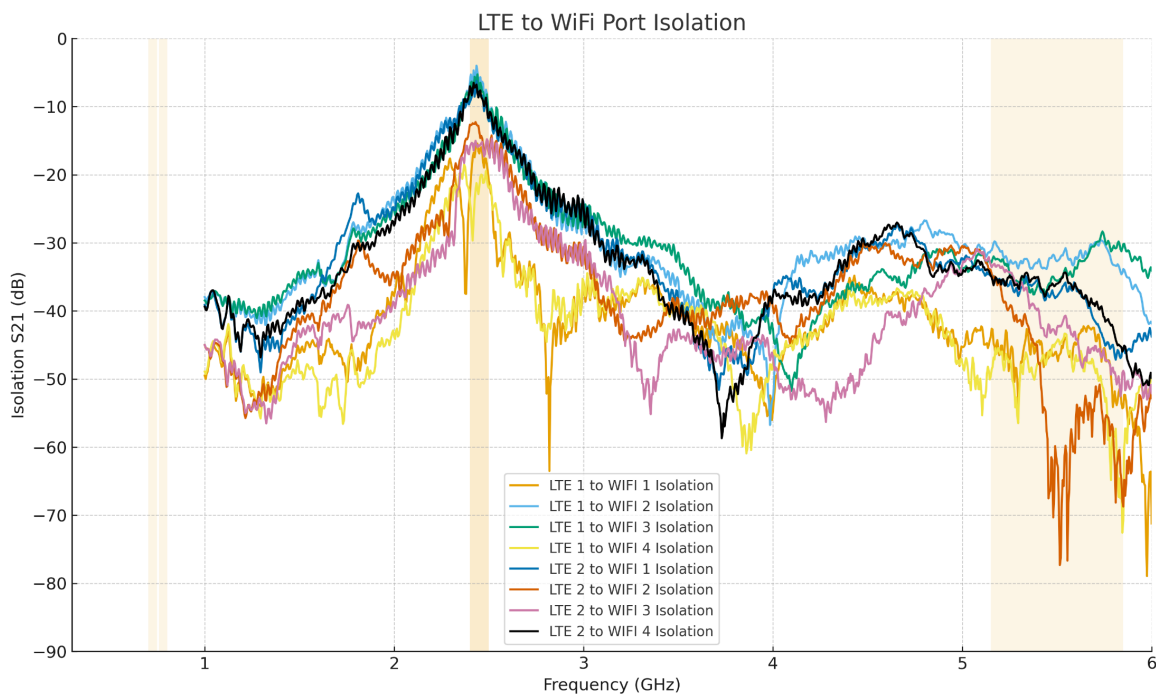




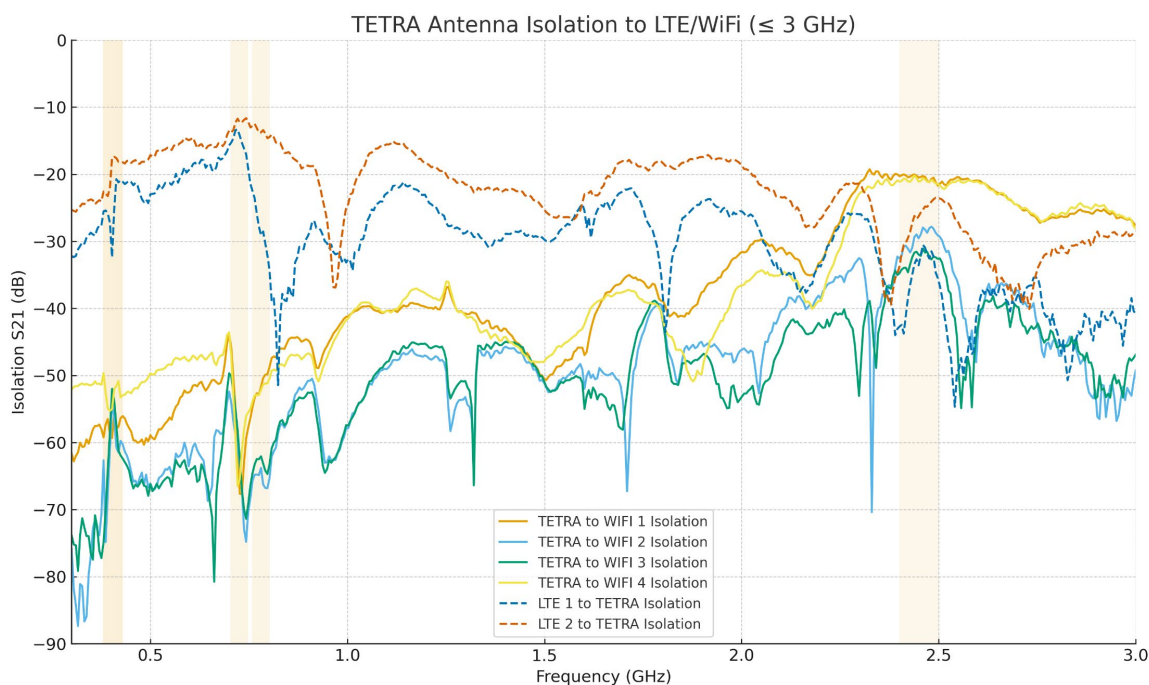
## LTE Return Loss



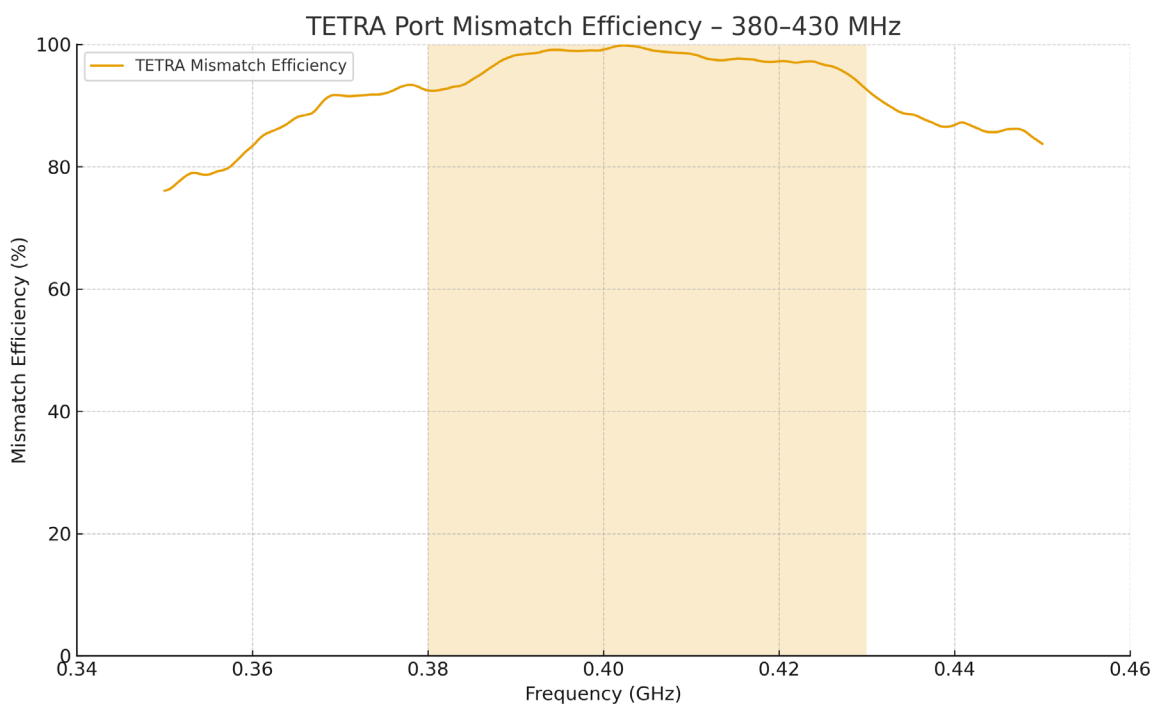
## LTE to Wi-Fi Port Isolation



## TETRA to LTE/Wi-Fi Isolation

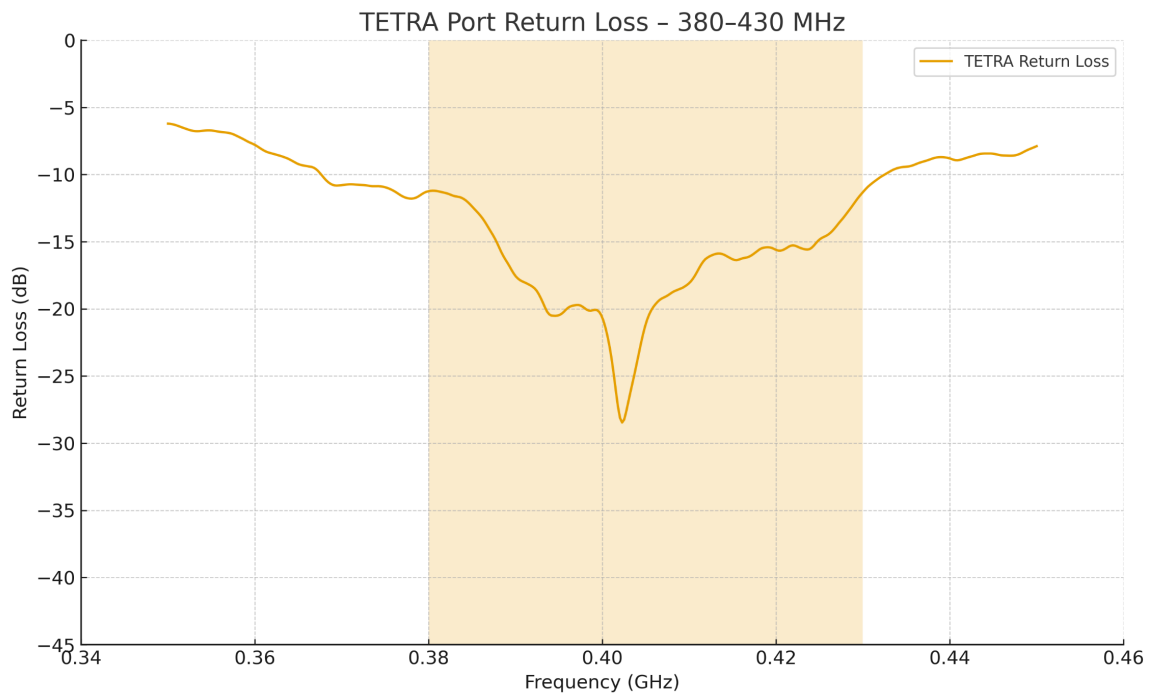


## TETRA Port Mismatch Efficiency

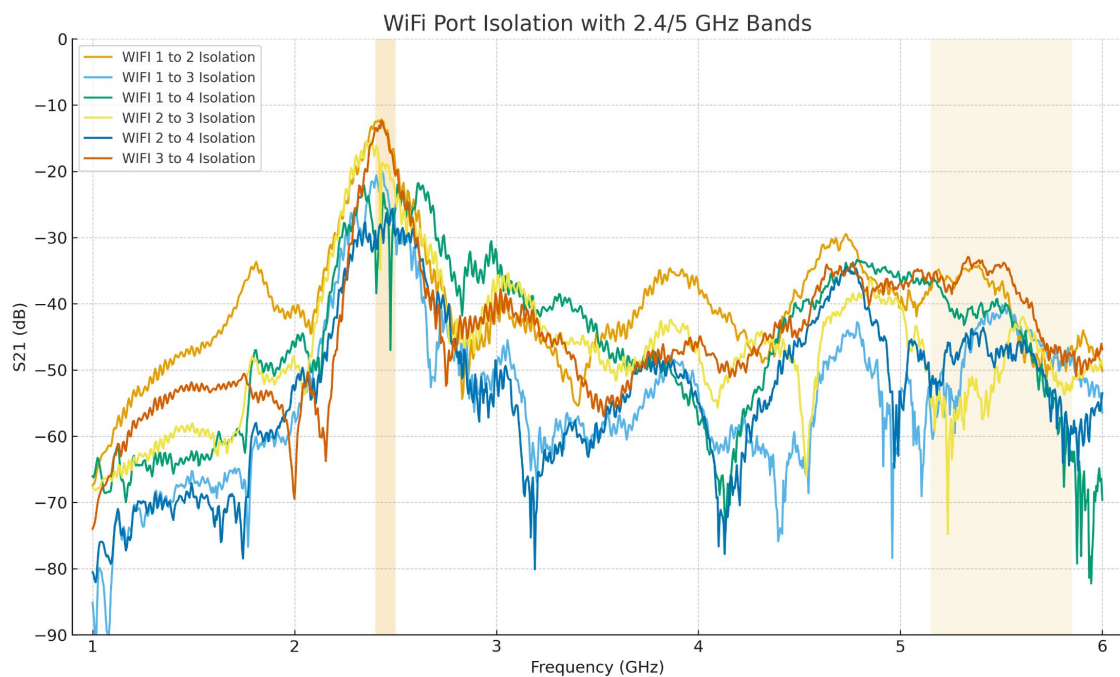




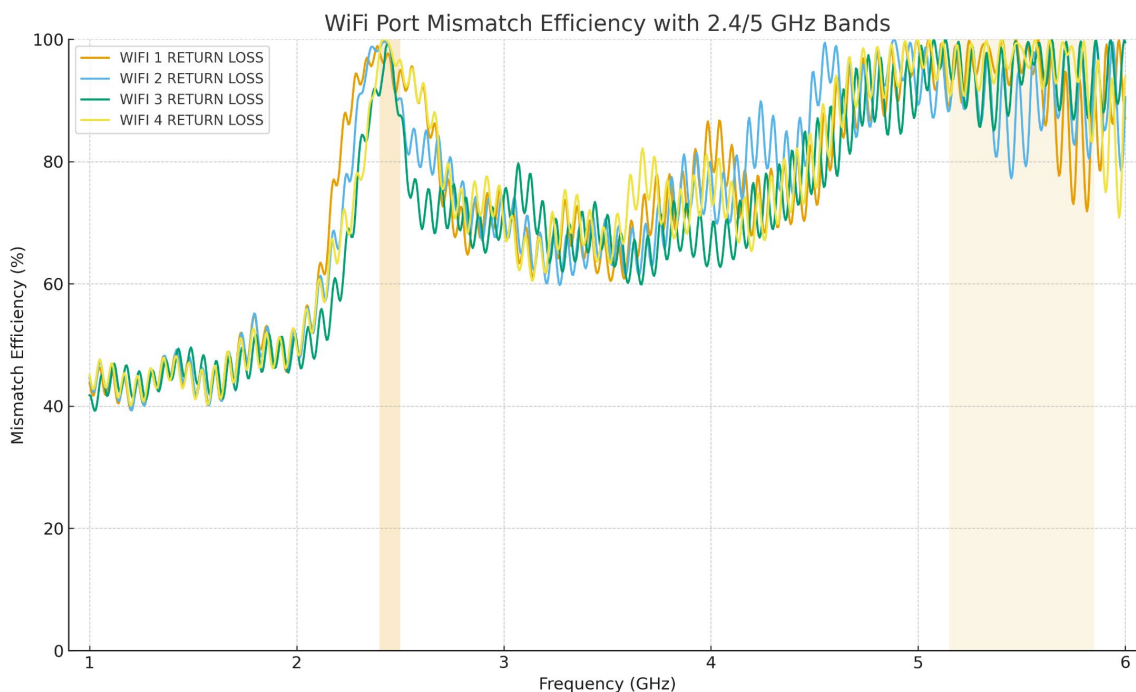
### TETRA Port Return Loss



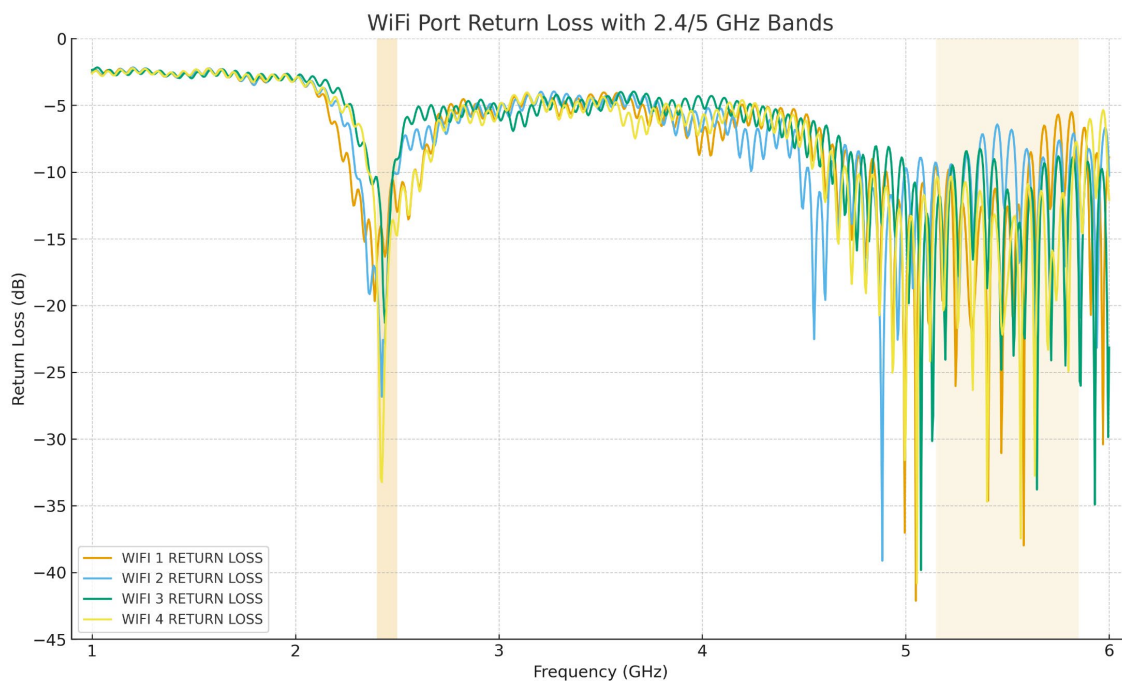
### Wi-Fi Port Isolation



## Wi-Fi Port Mismatch Efficiency



## Wi-Fi Port Return Loss

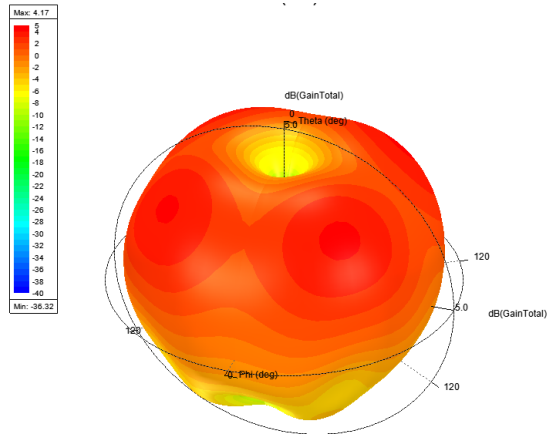




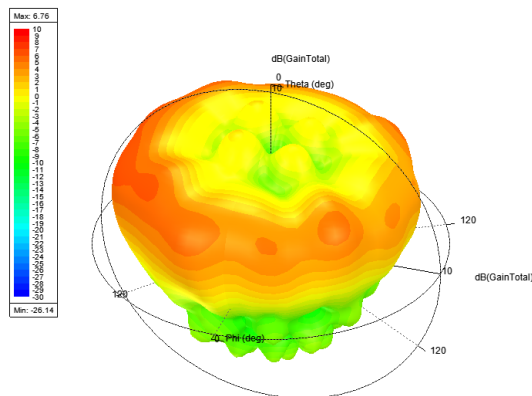
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## Antenna 3D Gain Plots

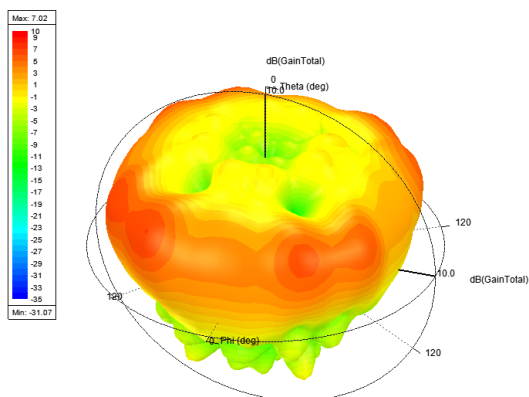
**820MHz**



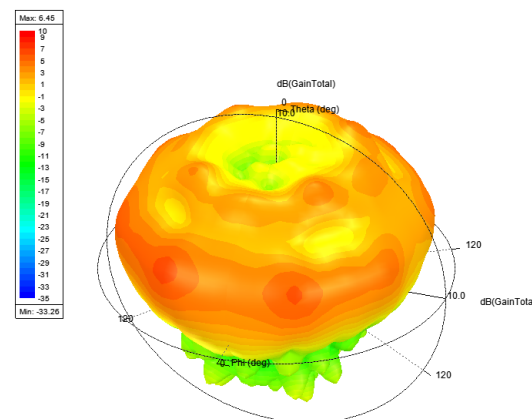
**1820MHz**



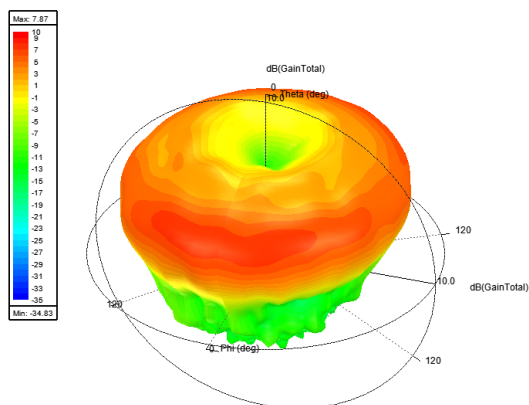
**2140MHz**



**2600MHz**



**3600MHz**



All graphs & diagrams are subject to change without prior notice.

Sure Antennas. 6 Woodway Court, Thursby Rd, Bromborough, Merseyside CH62 3PR, United Kingdom  
Schiphol Airport Tetra, Transpolis Park, Siriusdreef 17-27, 2132 WT Hoofddorp, Netherlands

T. +44 (0)151 363 7377 | E. [sales@sure-antennas.com](mailto:sales@sure-antennas.com)

[www.sure-antennas.com](http://www.sure-antennas.com)

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