

SK0200250 'Mallard' 9-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 **9 Functions** including **TETRA, 2x LTE, 4x WiFi and 2x GPS**

Also Available in White: Part No. SK0200310



Part No.	Cable Kit Options
SK0200313	Sure Antenna Mallard 9 in 1 Black - LTE 2x2 MiMo 5G 4G 3G 2G, 4x4 WiFi 2x GPS & 1x Tetra. Inc 3m Modem Cables
SK0200908	Product Kit : Mallard 9 in 1 Antenna : Black : 4xLTE 2xGPS 2xWiFi 1xTETRA Inc 3m Low Loss Coax Cables - Terminated
SK0200909	Product Kit : Mallard 9 in 1 Antenna : Black : 4xLTE 2xGPS 2xWiFi 1xTETRA Inc 5m Low Loss Coax Cables - Terminated

Additional options available upon request.

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Technical Specifications

Part No.		SK0200250					
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		4x4 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					

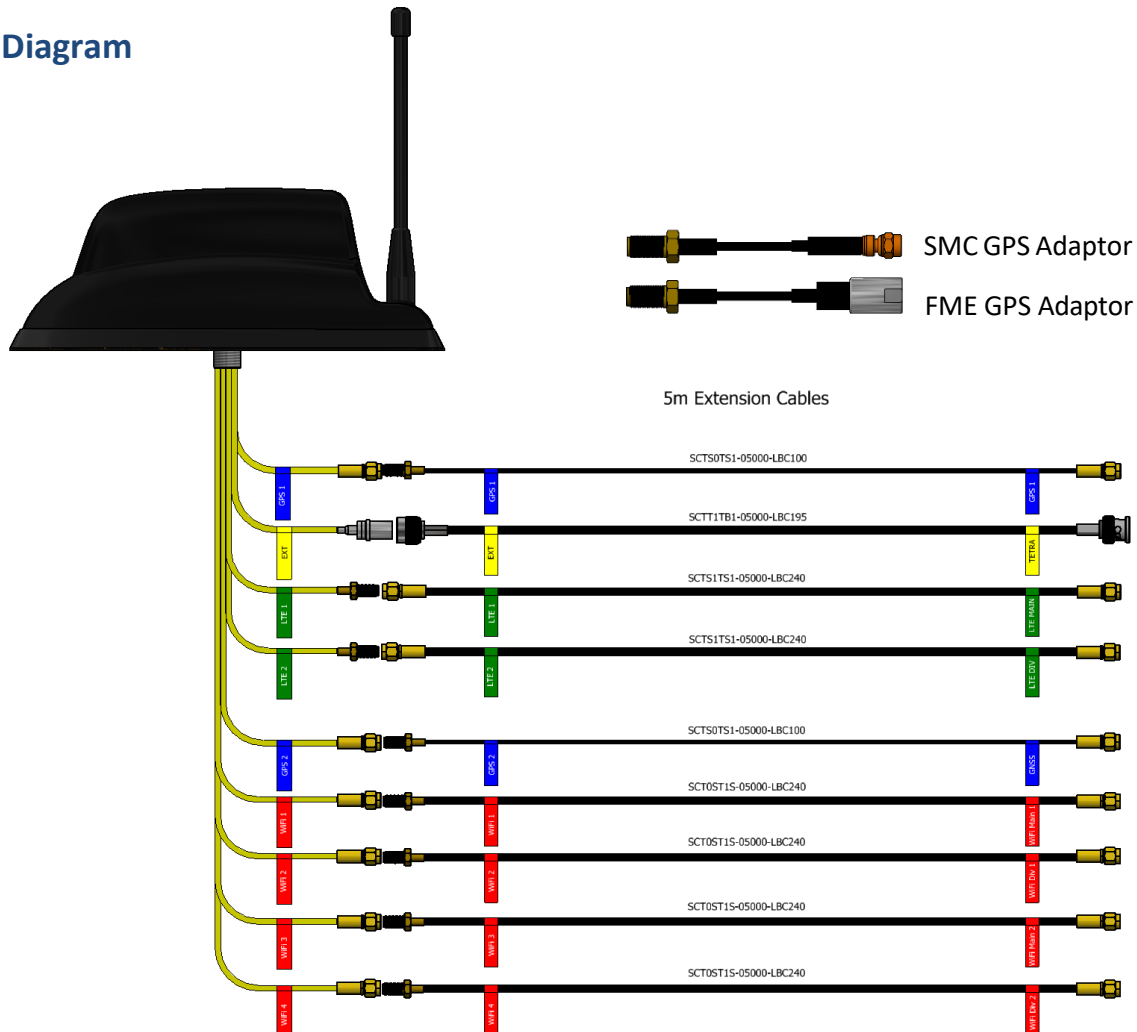
Subject to change without prior notice. *Excluding external antenna.

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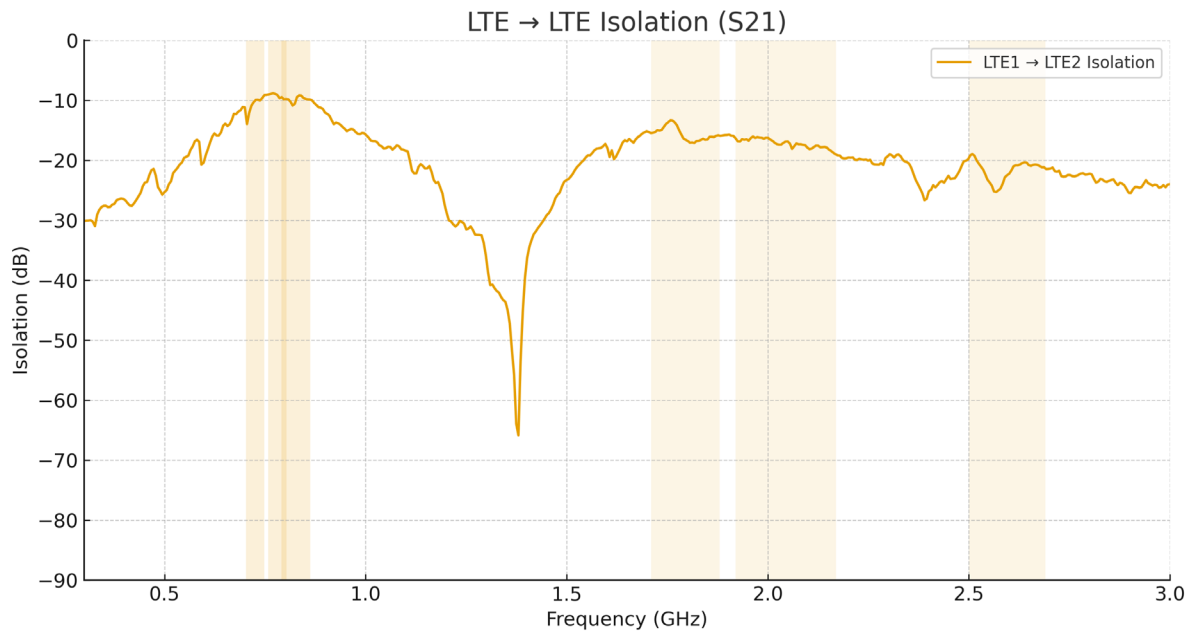
Supplied Coax Extension Cables

Coax Cables	2x LTE	4x 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

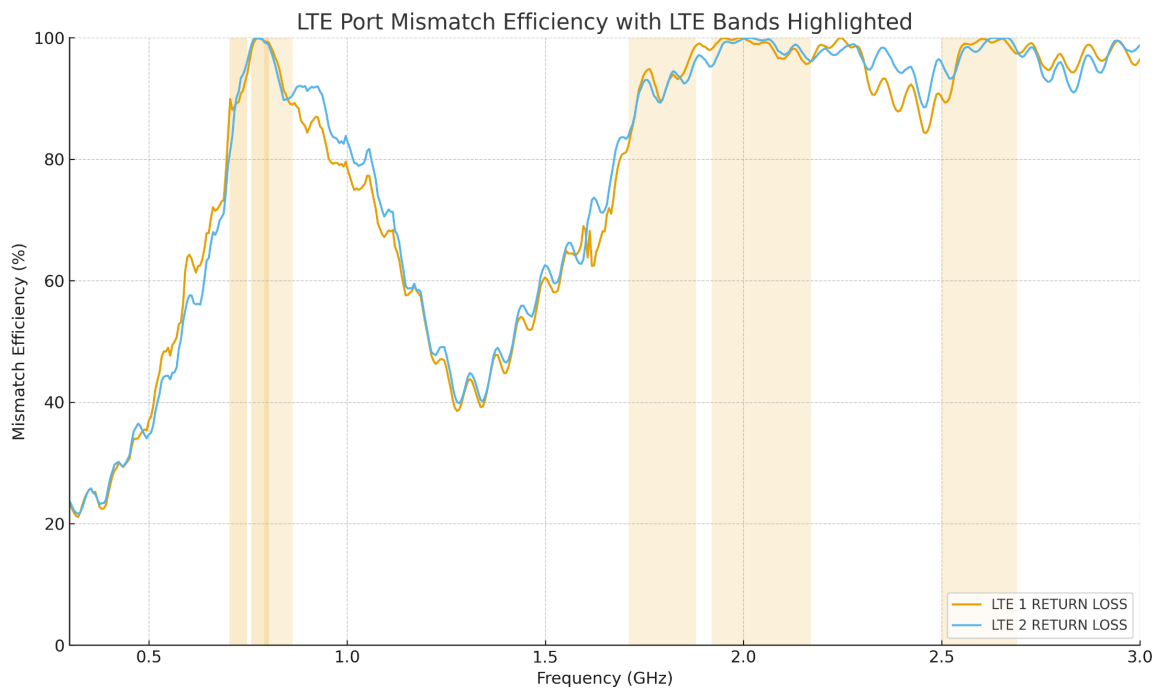
Cable Diagram



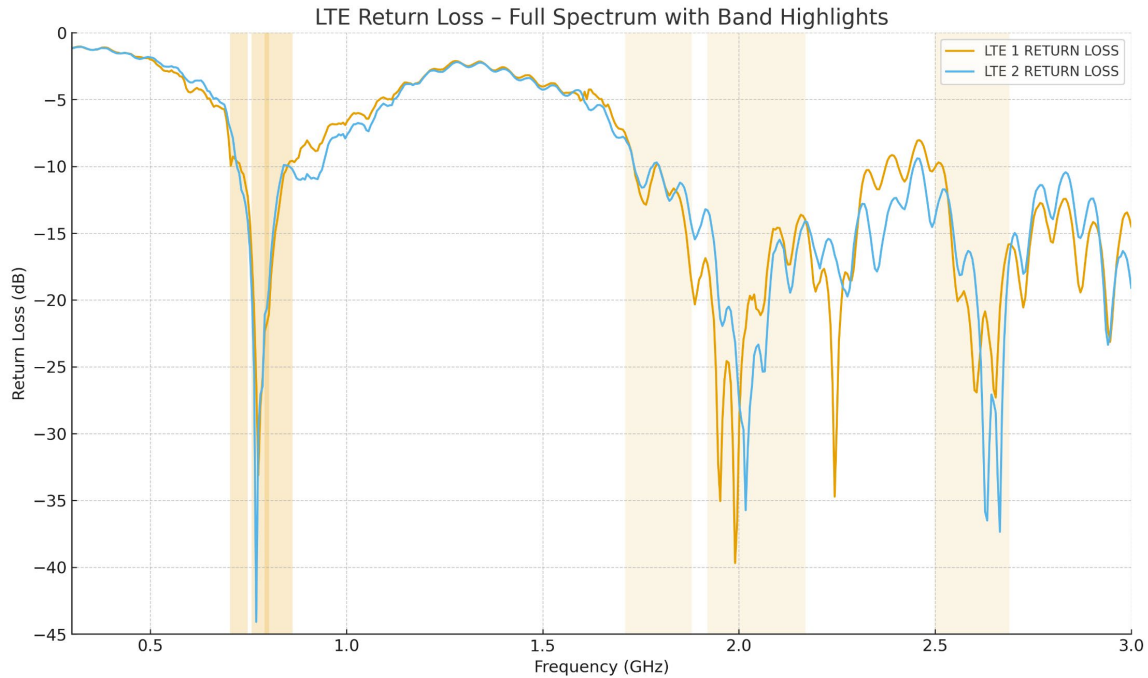
LTE Isolation



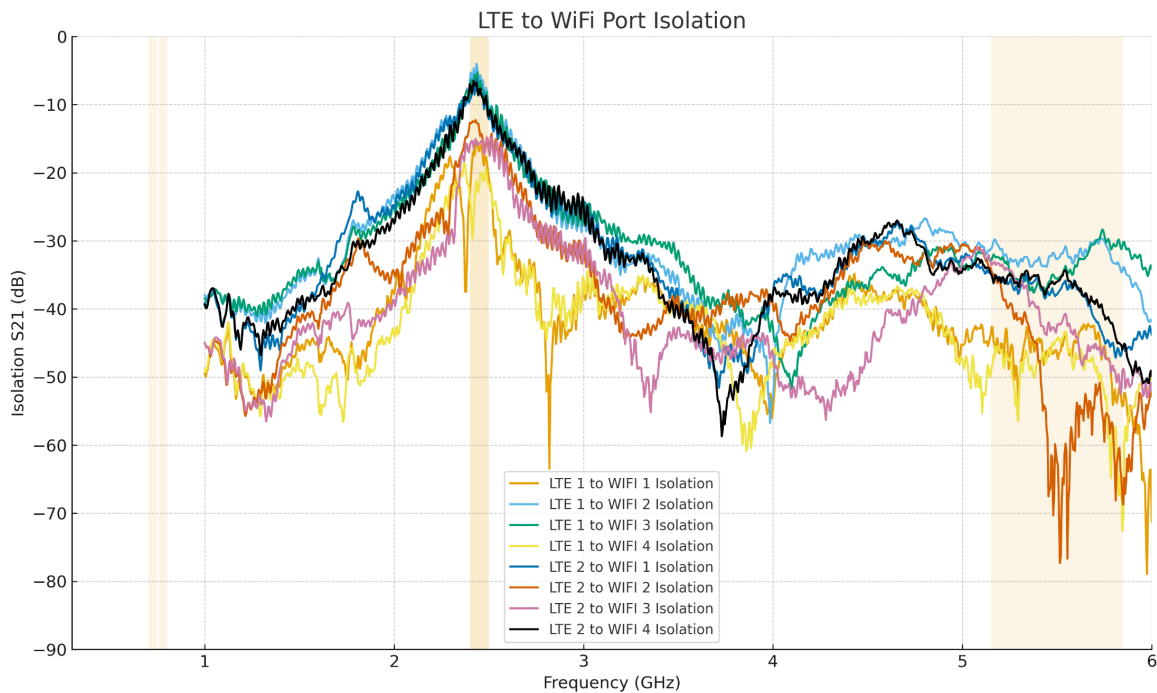
LTE Port Mismatch Efficiency



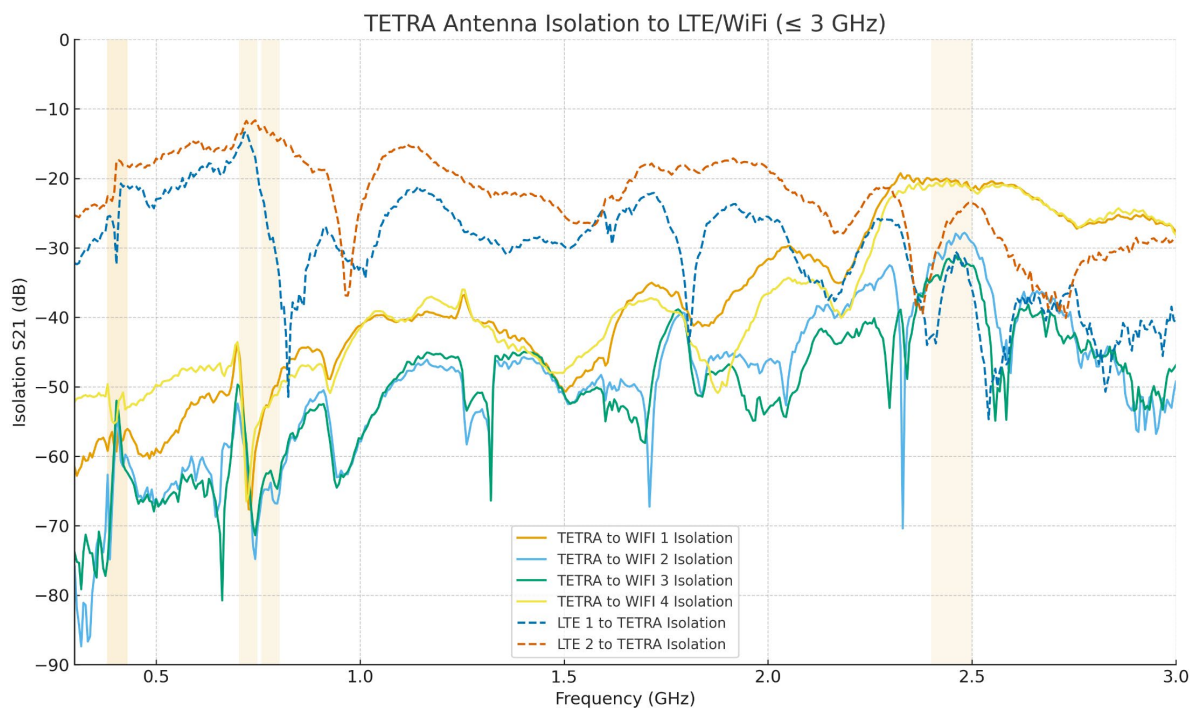
LTE Return Loss



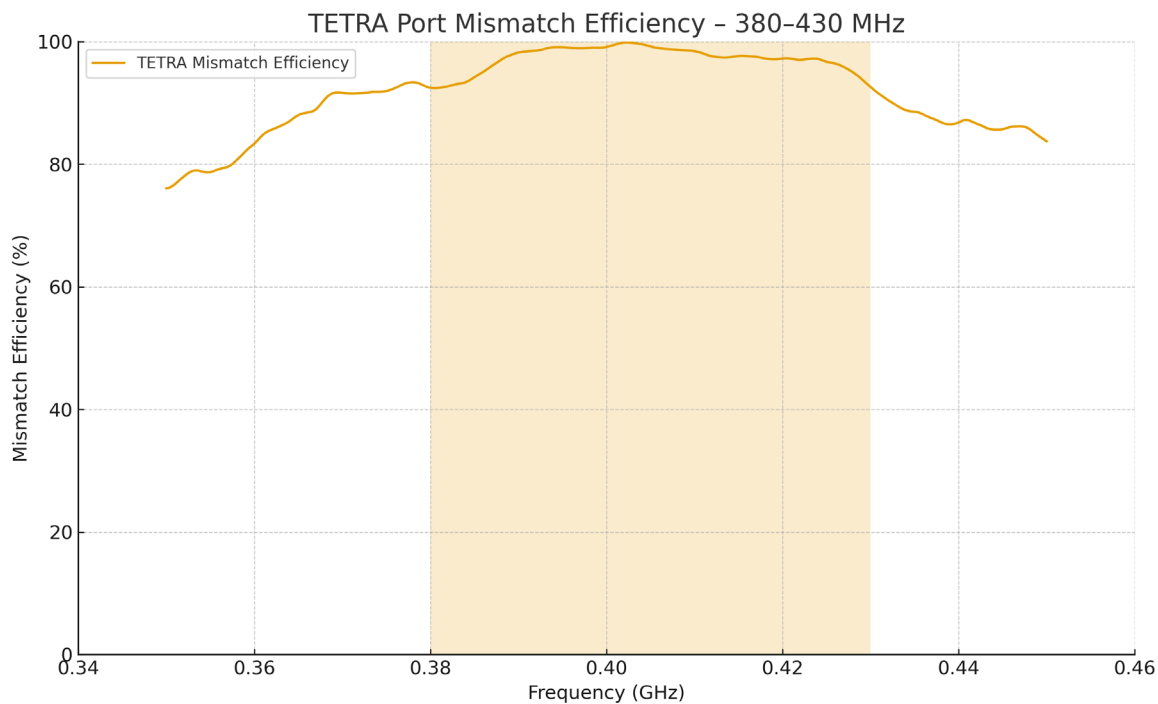
LTE to Wi-Fi Port Isolation



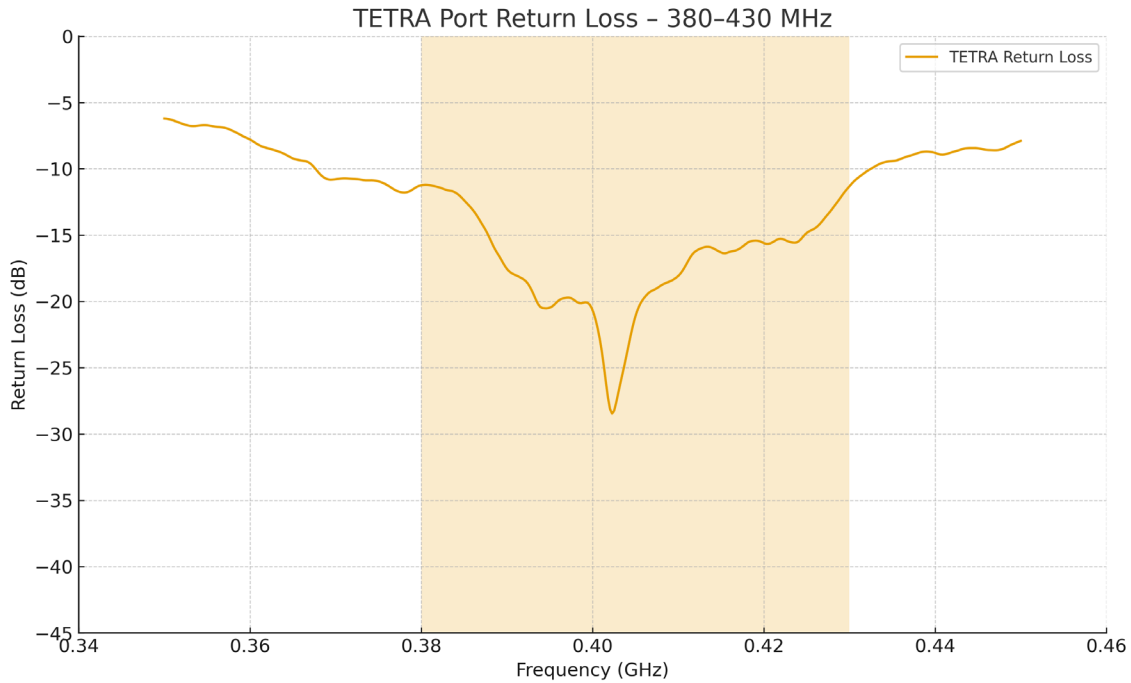
TETRA to LTE/Wi-Fi Isolation



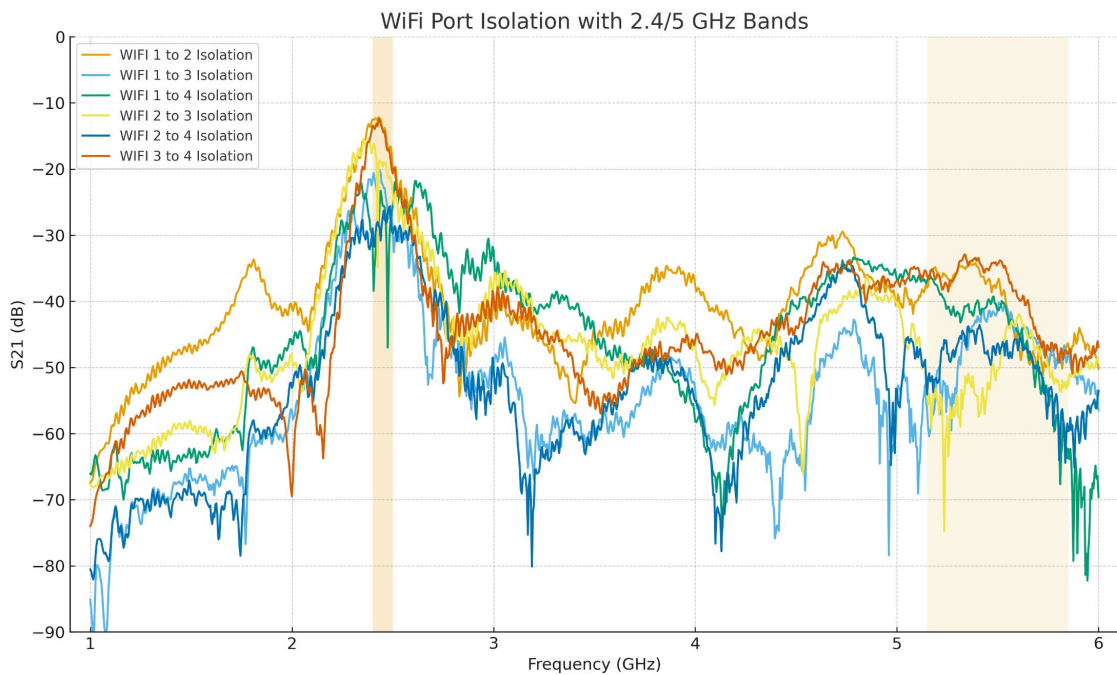
TETRA Port Mismatch Efficiency



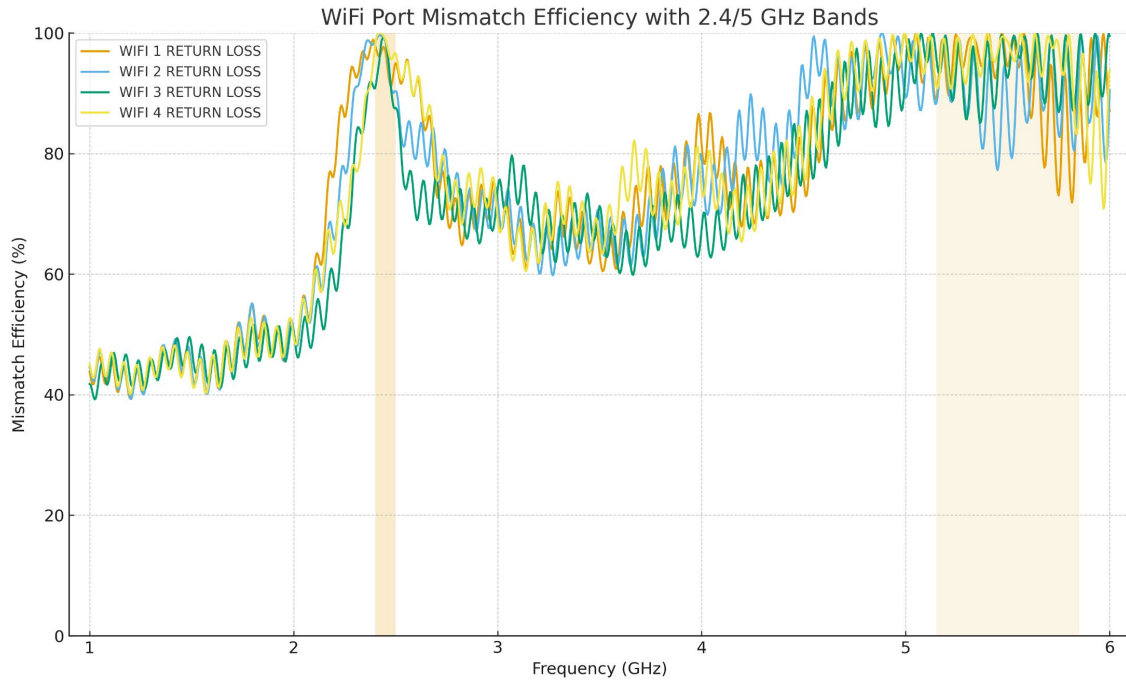
TETRA Port Return Loss



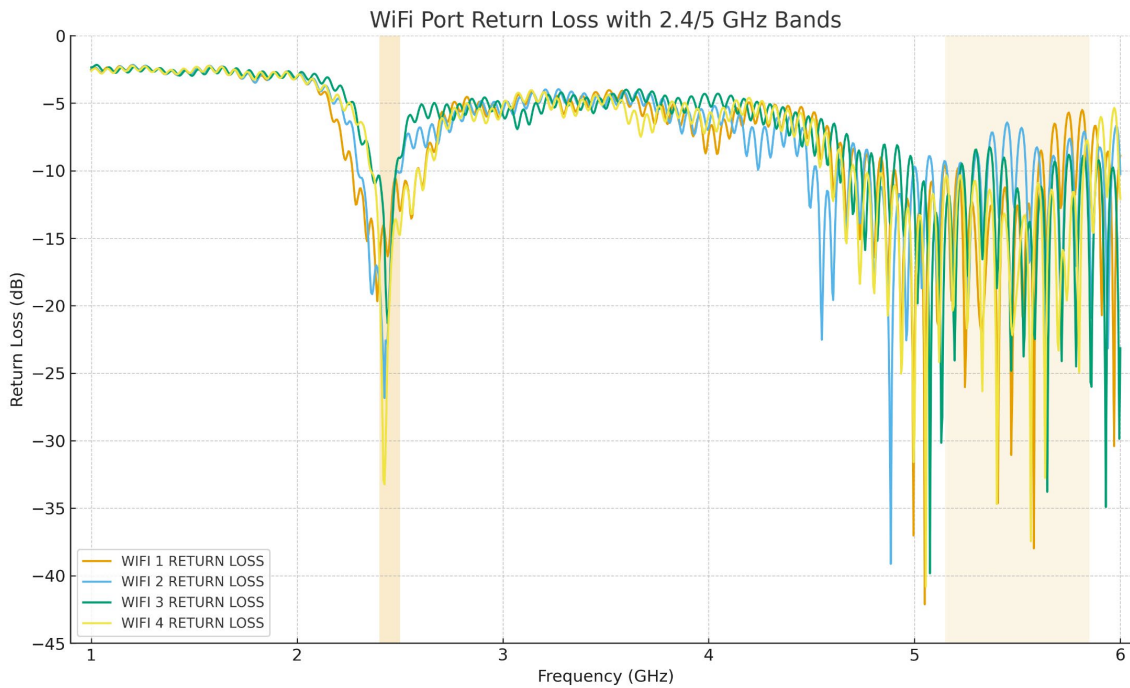
Wi-Fi Port Isolation



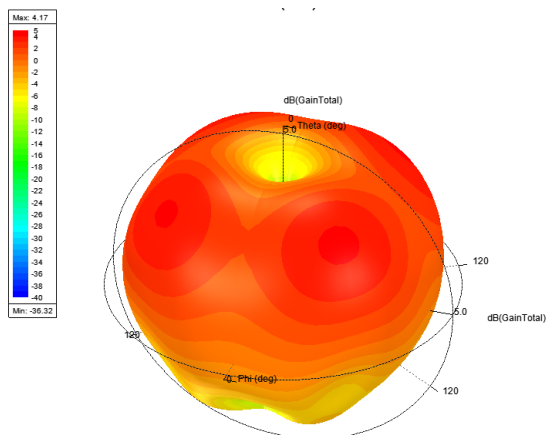
Wi-Fi Port Mismatch Efficiency



Wi-Fi Port Return Loss



820MHz



3D visualization of the gain distribution of the MWA. The plot shows a spherical distribution of gain in dB, with a color bar on the left ranging from -35.26 dB (blue) to 10 dB (red). The axes are labeled with θ (deg) and ϕ (deg). The gain is highest (red/orange) at the top and bottom poles and lowest (blue) at the equator.

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