

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 **6 Functions** including **2x LTE, 3x WiFi and 1x GPS**

Supplied Coax Extension Cables

Also Available in White: Part No. 7000-206



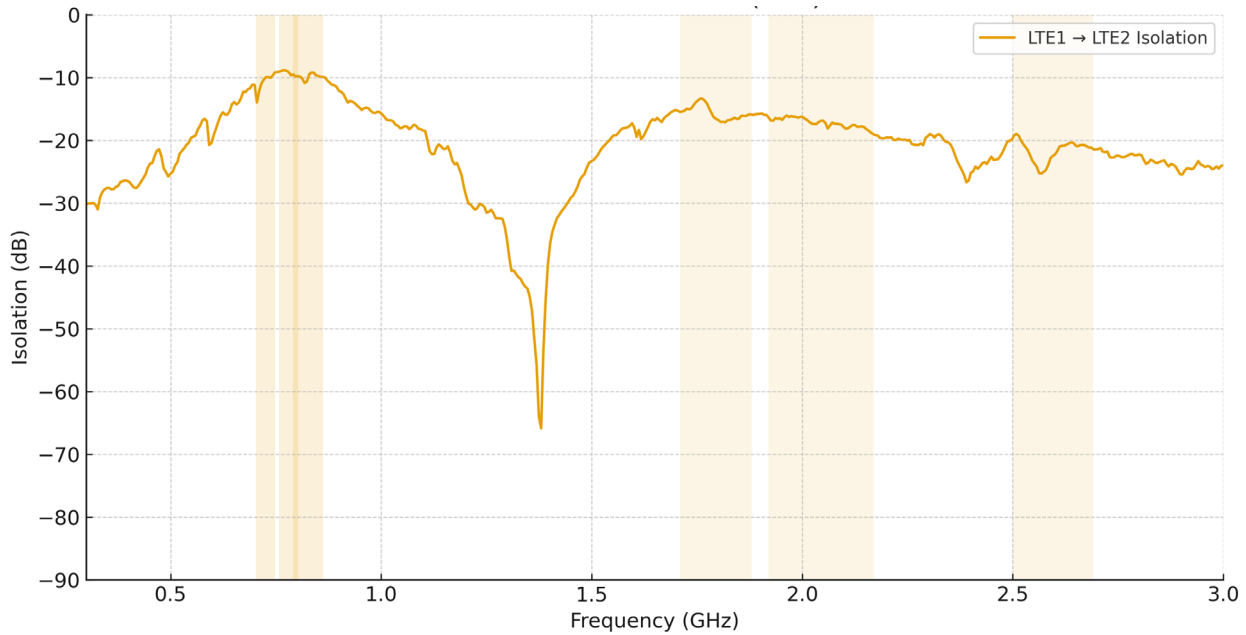
Coax Cables	2x LTE	3x Wi-Fi	1x GPS
Cable Type	SBC240	SBC240	SBC100
Cable length	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	6.1	2.8
Min. Bend Radius (mm)	30	30	14
Operating Temp. °C	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA Reverse Polarity (m)	SMA (m)
Labeling	LTE M & LTE A	Wi-Fi M & Wi-Fi A	GPS

Technical Specifications

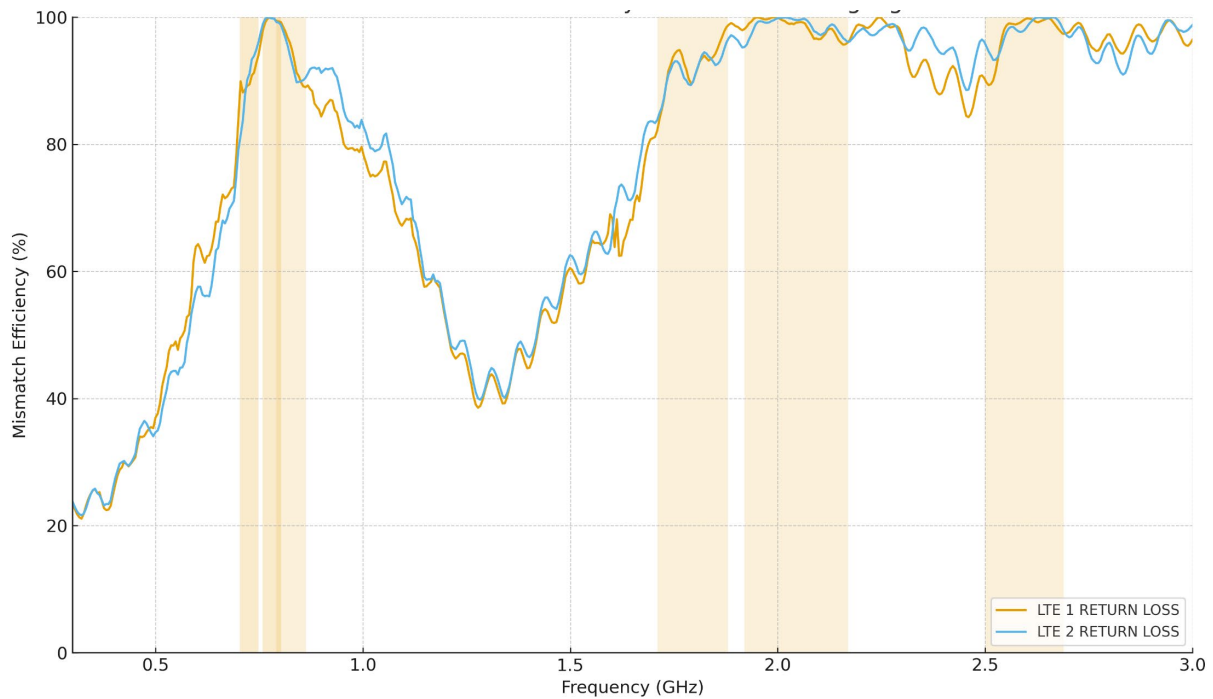
Part No.		7000-306	
Electrical Data		2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	698-6000 MHz		2.4 GHz & 5.8GHz
Band	2x2 MiMo 2G 3G 4G 5G		2x2 MiMo Dual Band Wi-Fi
VSWR	<2.1:1 TYPICALLY 1.5:1		<2.1:1 TYPICALLY 1.5:1
Gain	Minimum 4dBi		Minimum 4dBi
Isolation	<-25dB		<-25dB
Polarisation	Vertical		Vertical
Pattern	Omni-directional		Omni-directional
Impedance	50Ω		50Ω
Max Power Input (W)	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
length	160mm		200mm
Diameter	2.8		2.8
Termination	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

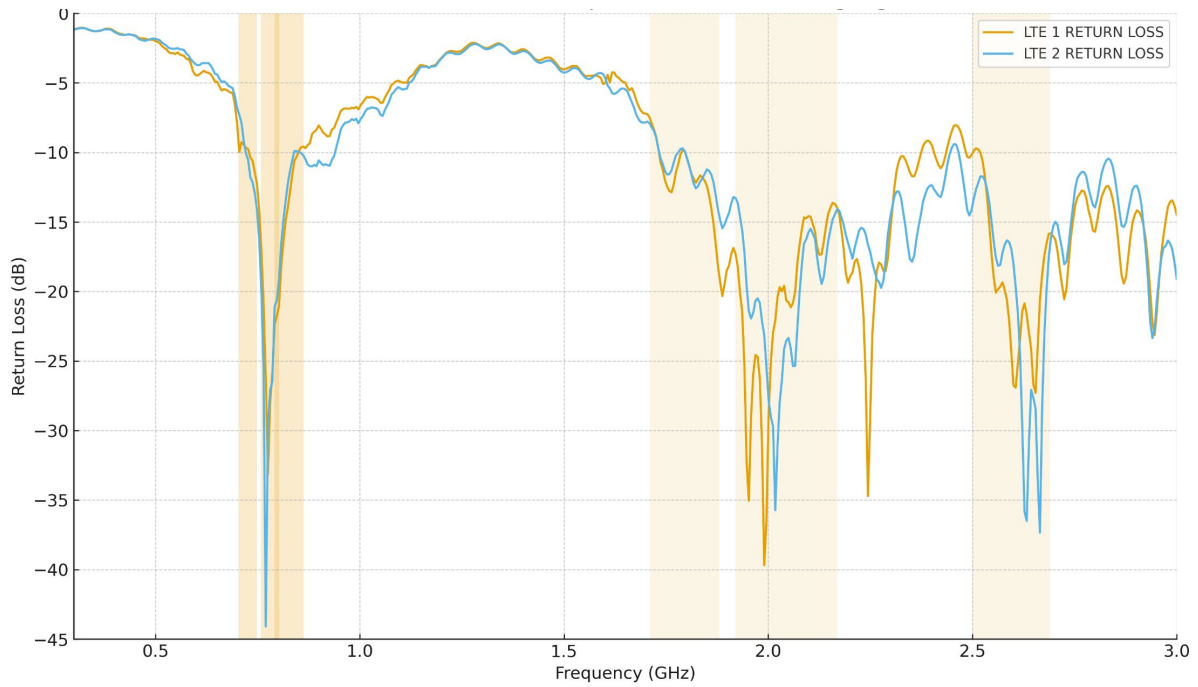
LTE Isolation



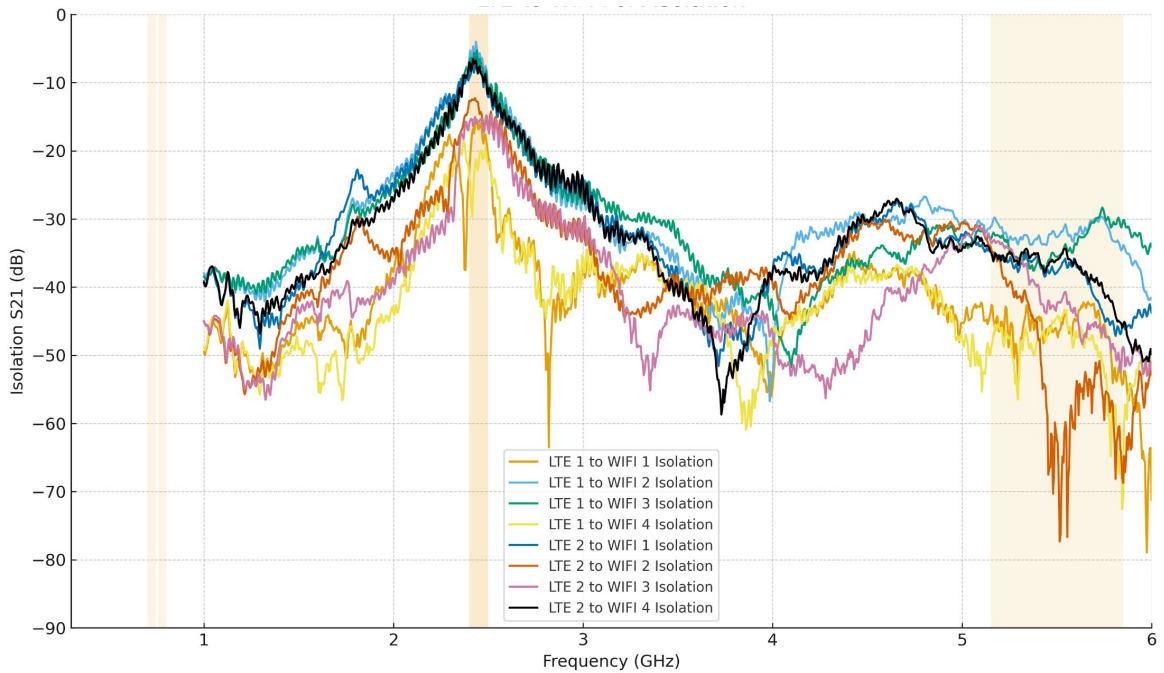
LTE Port Mismatch Efficiency



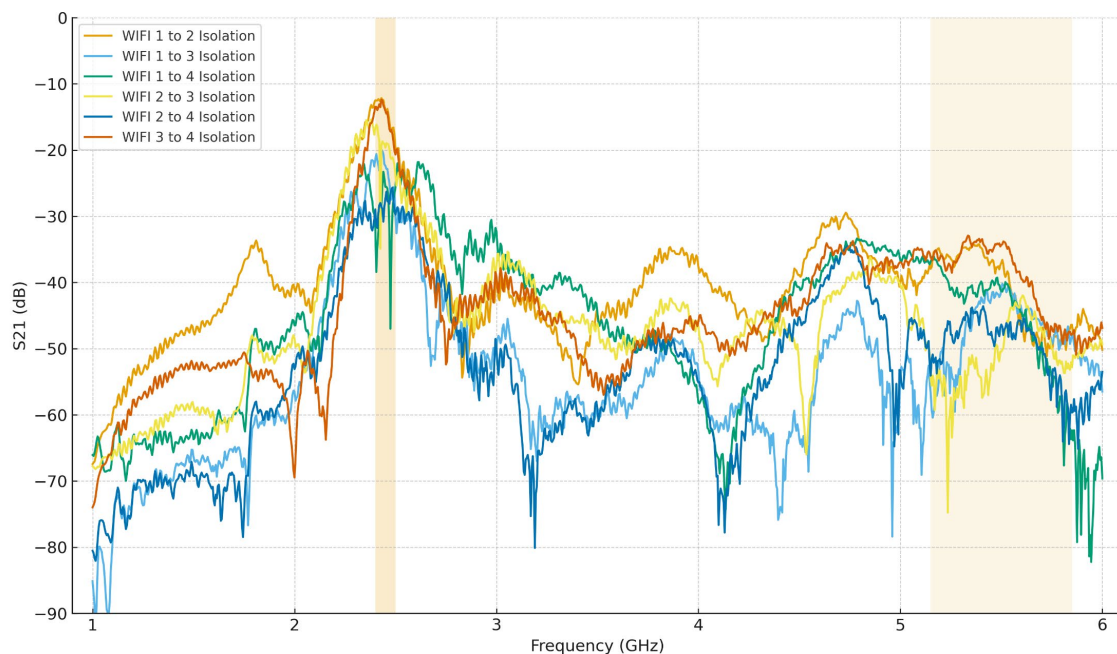
LTE Return Loss



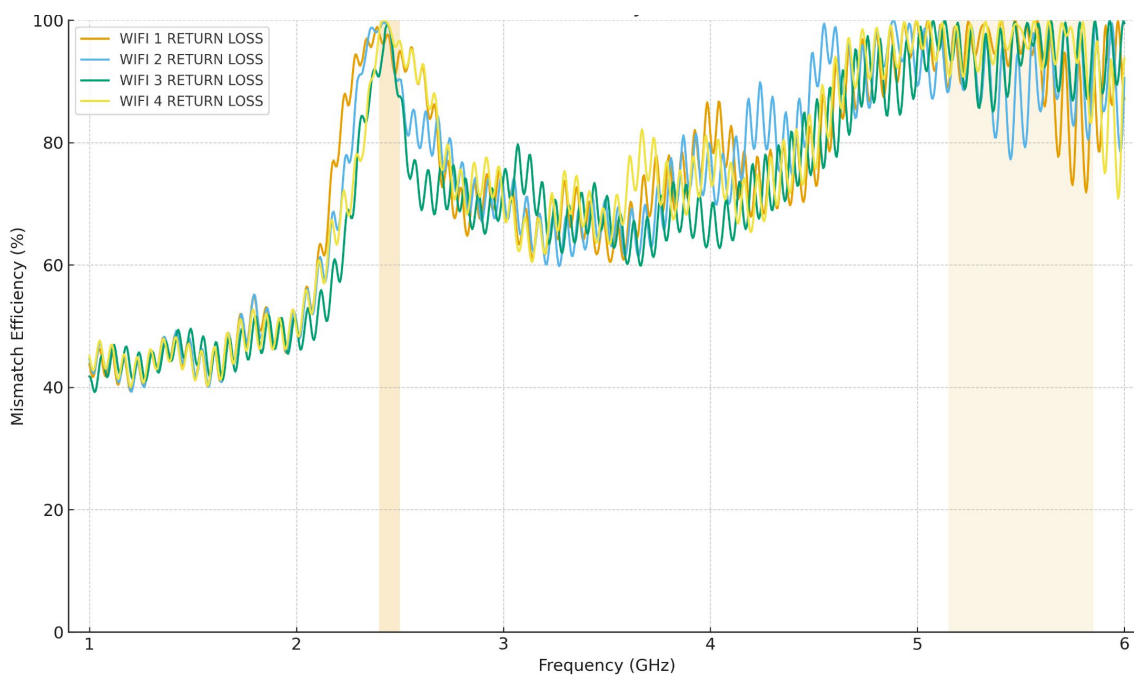
LTE to Wi-Fi Port Isolation



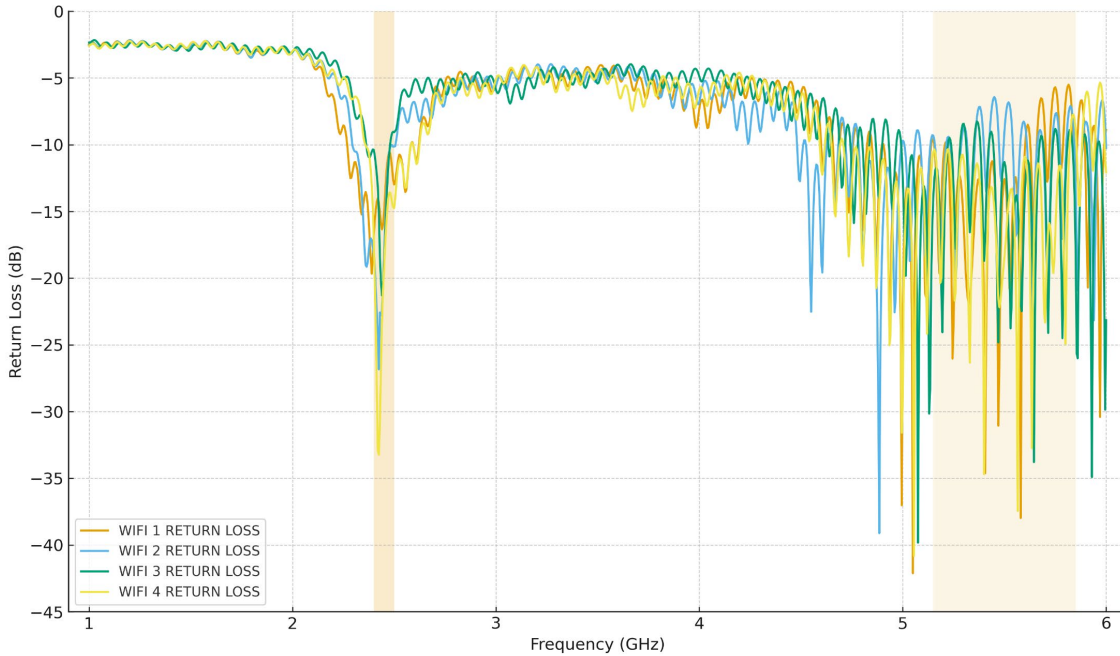
Wi-Fi Port Isolation



Wi-Fi Port Mismatch Efficiency

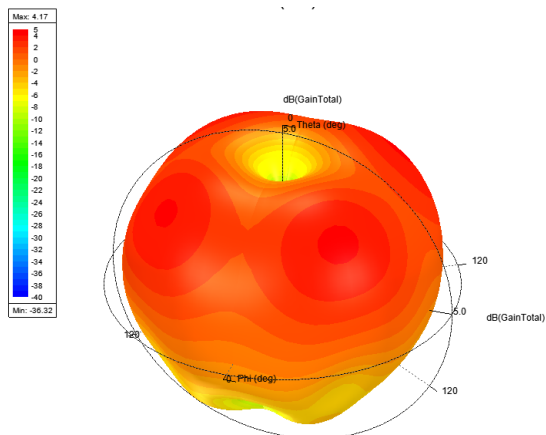


Wi-Fi Port Return Loss

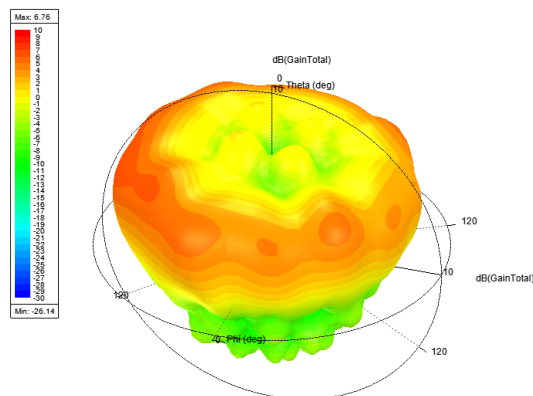


Antenna 3D Gain Plots

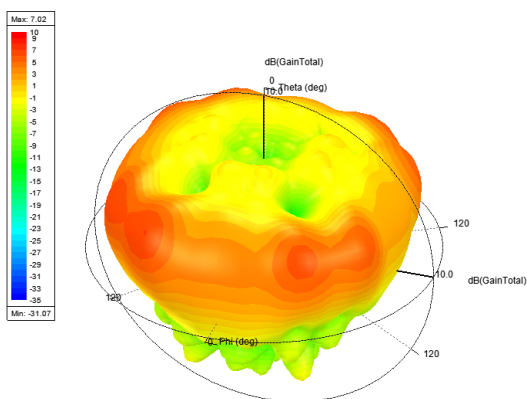
820MHz



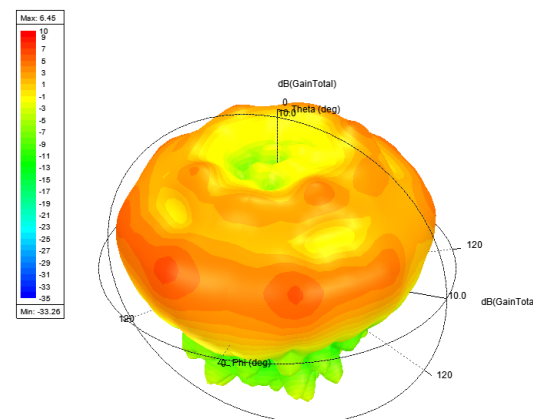
1820MHz



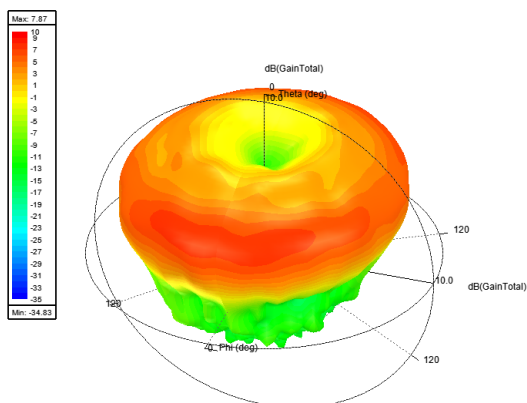
2140MHz



2600MHz



3600MHz



All graphs & diagrams 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

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www.sure-antennas.com