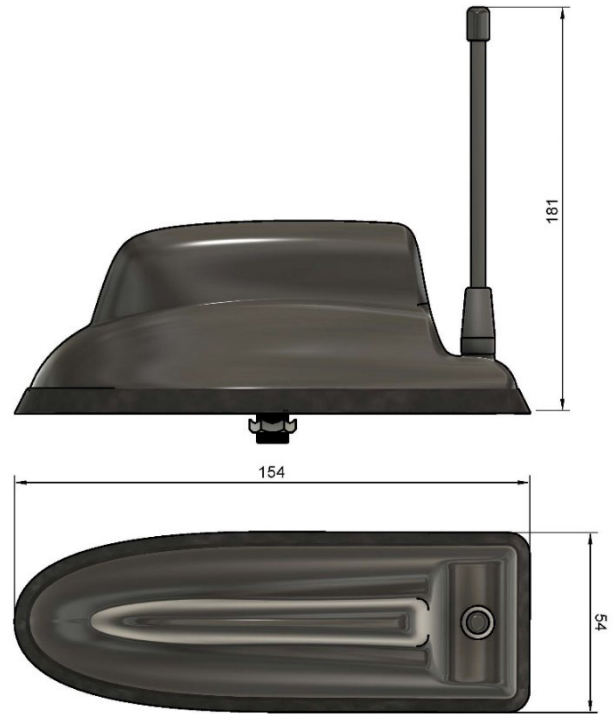


SK0200270 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables - TETRA

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 **5 Functions** including **TETRA, 2x LTE and 2x GPS**

Also Available in White: Part No. SK0200330



Part No.	Cable Kit Options
SK0200140	Product Kit : Mallard 5 in 1 Antenna : Black : Inc 5m Low Loss Coax Extension Cables - Terminated
SK0200142	Product Kit : Mallard 5 in 1 Antenna : Black : Inc 3m Low Loss Coax Extension Cables - Terminated

Additional options available upon request.

SK0200270 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables - TETRA

Technical Specifications

Part No.	SK0200270	
Electrical Data	TETRA	2G 3G 4G 5G
Frequency Range (MHz)	380 - 430 MHz	698-6000 MHz
Band	TETRA	2x2 MiMo 2G 3G 4G 5G
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	160mm
Diameter	2.8	2.8
Termination	TNC (f)	SMA (f)
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 LTE	1x GPS	1x TETRA	1x GPS
Cable Type	SBC240	SBC100	SBC195	SBC100
length	5m or 3m	5m or 3m	5m or 3m	5m or 3m
Diameter (mm)	6.1	2.8	4.95	2.8
Min. Bend Radius (mm)	30	14	25	14
Operating Temp. °C	-40-80	-40-80	-40-80	-40-80
Termination	SMA (m)	SMA (m)	BNC (m)	SMA (m) – Motorola and Sepura adaptors supplied.
Labeling	LTE M & LTE A	GPS	TETRA	GPS TETRA

The diagram illustrates a 5m extension cable setup for a vehicle antenna system. A black antenna unit is connected to a bundle of yellow cables. These cables are labeled with blue and green tags: GPS 1, EXT, LTE 1, LTE 2, and GPS 2. The cables are connected to a series of black cables, each with a specific part number: SCTS0T51-05000-LBC100, SCTT1TB1-05000-LBC195, SCTS1T51-05000-LBC240, SCTS1T51-05000-LBC240, and SCTS0T51-05000-LBC100. The cables are terminated with various connectors, including SMC GPS Adaptors and FME GPS Adaptors. A legend on the right identifies the SMC GPS Adaptor and the FME GPS Adaptor.

5m Extension Cables

SCTS0T51-05000-LBC100

SCTT1TB1-05000-LBC195

SCTS1T51-05000-LBC240

SCTS1T51-05000-LBC240

SCTS0T51-05000-LBC100

GPS 1

EXT

LTE 1

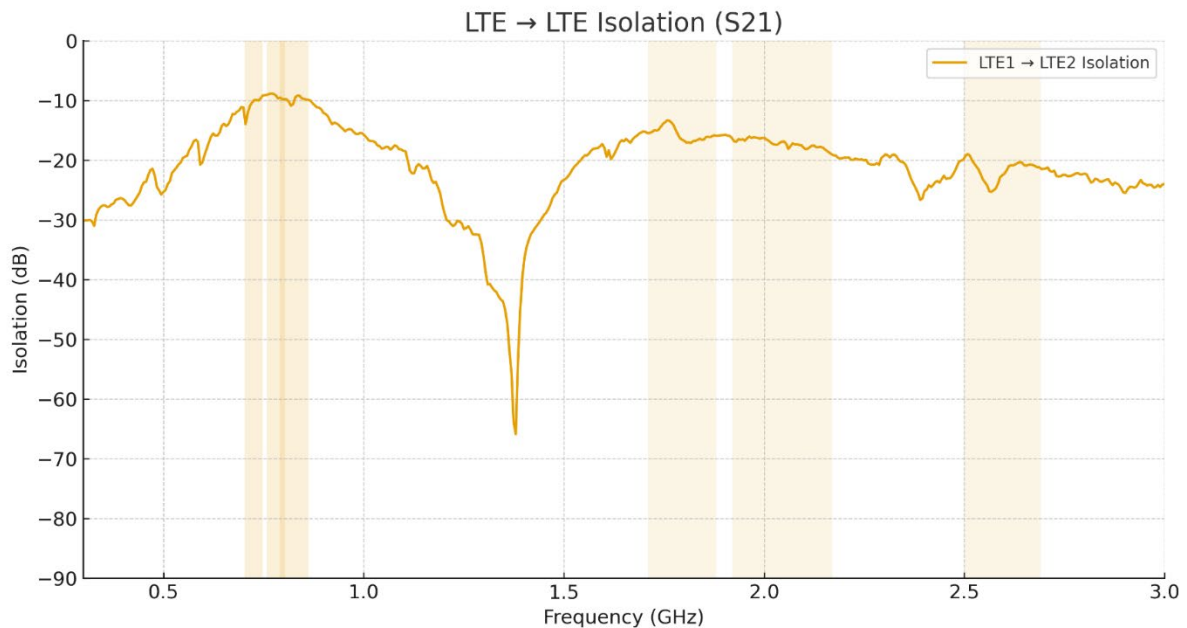
LTE 2

GPS 2

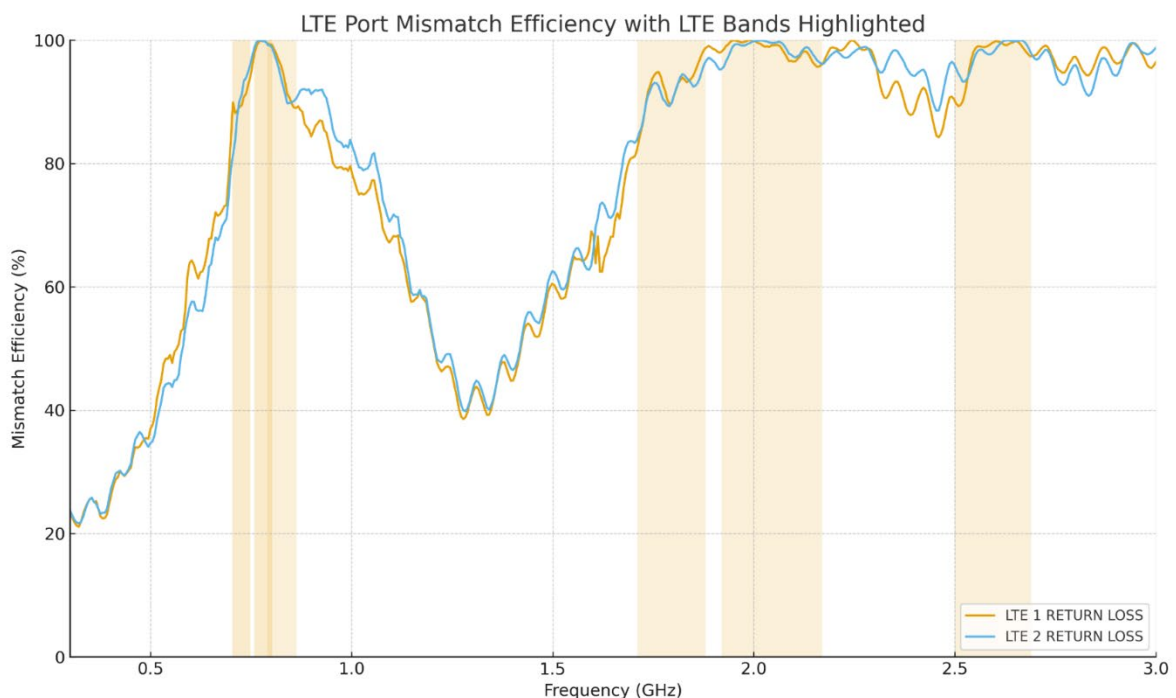
SMC GPS Adaptor

FME GPS Adaptor

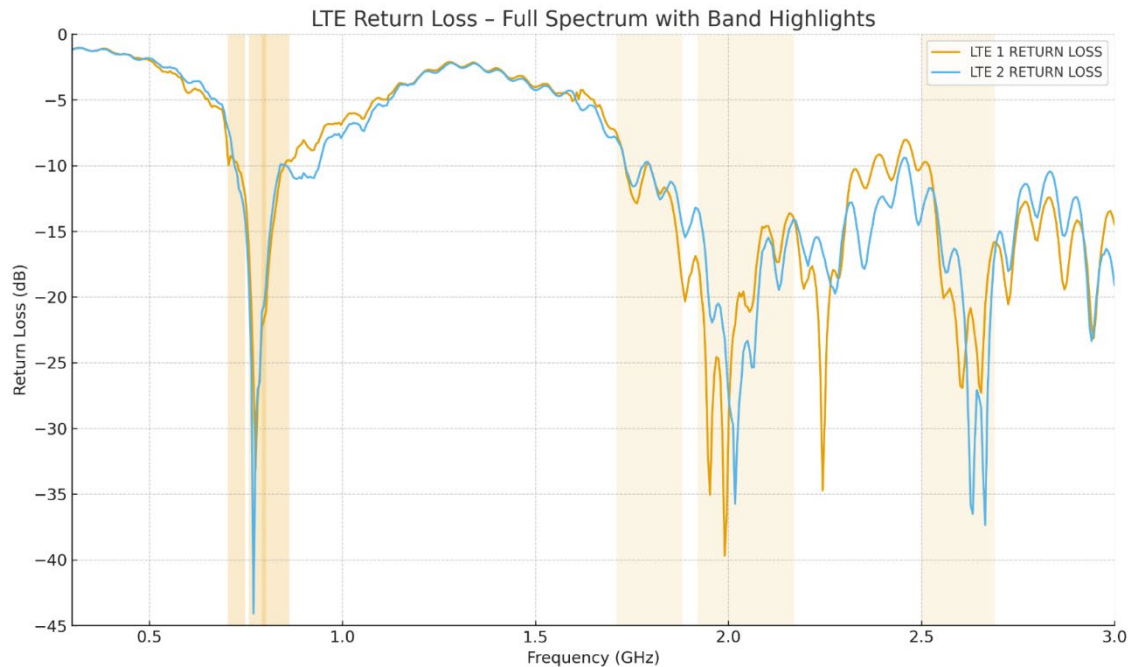
LTE Isolation



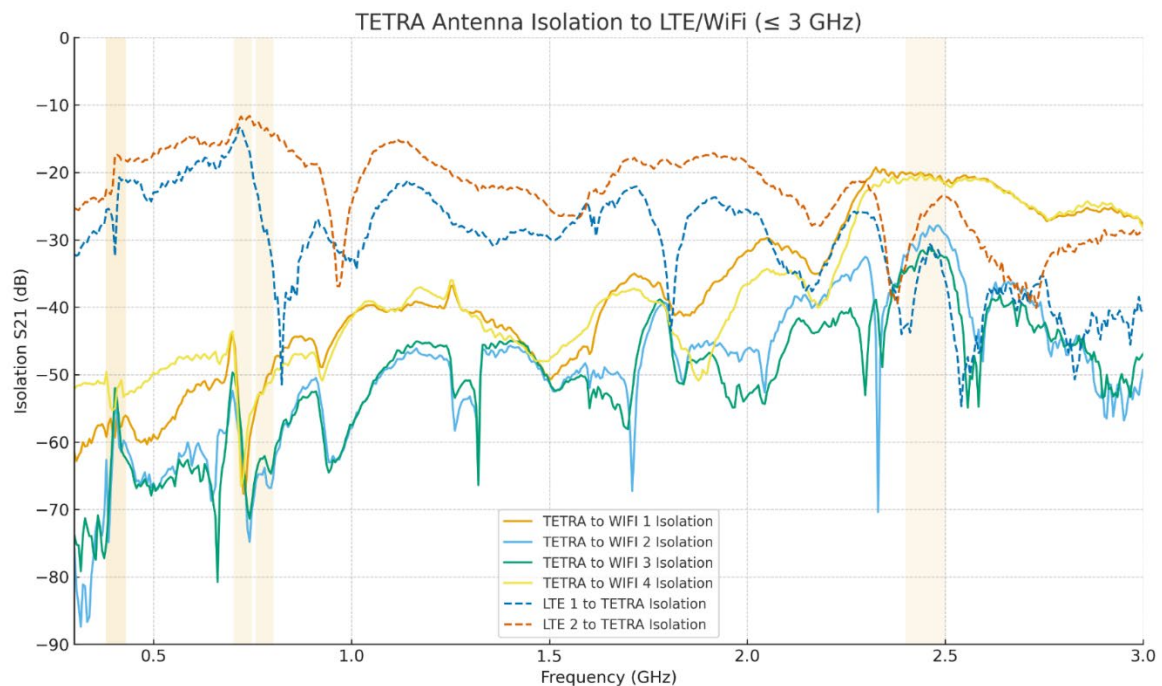
LTE Port Mismatch Efficiency



LTE Return Loss



TETRA to LTE/Wi-Fi Isolation



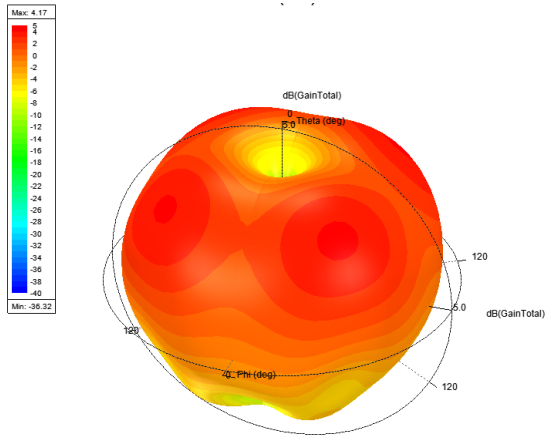
TRA Port Mismatch Efficiency - 380-430 MHz



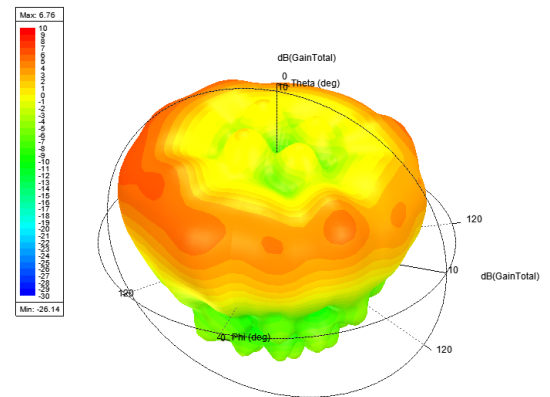
SK0200270 'Mallard' 5-in-1 Antenna Black incl. 5m Coax Cables - TETRA

Antenna 3D Gain Plots

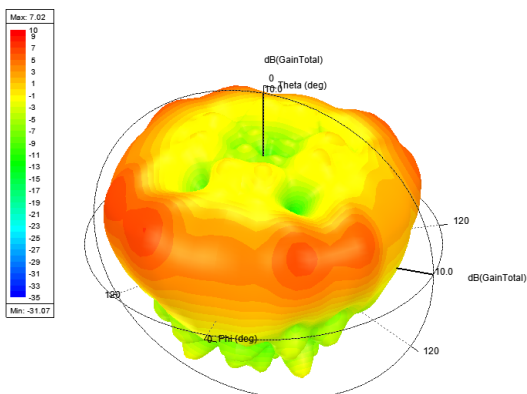
820MHz



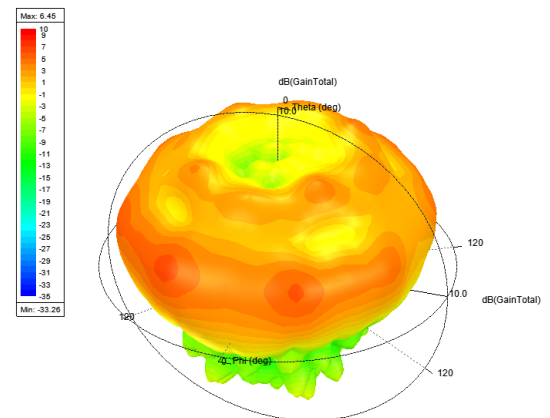
1820MHz



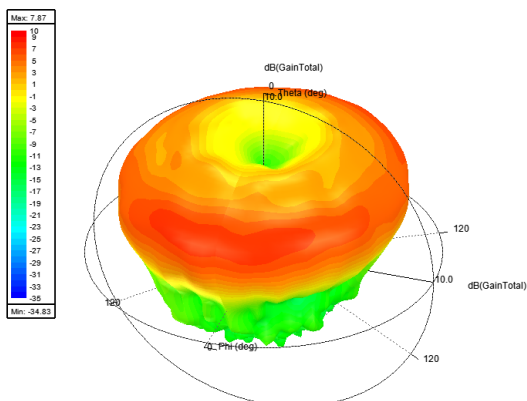
2140MHz



2600MHz



3600MHz



All graphs & diagrams 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