

# SK0200260 'Mallard' 7-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 **7 Functions** including **TETRA, 2x LTE, 2x WiFi and 2x GPS**

**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.

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## 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                                 |                        |             |                          |

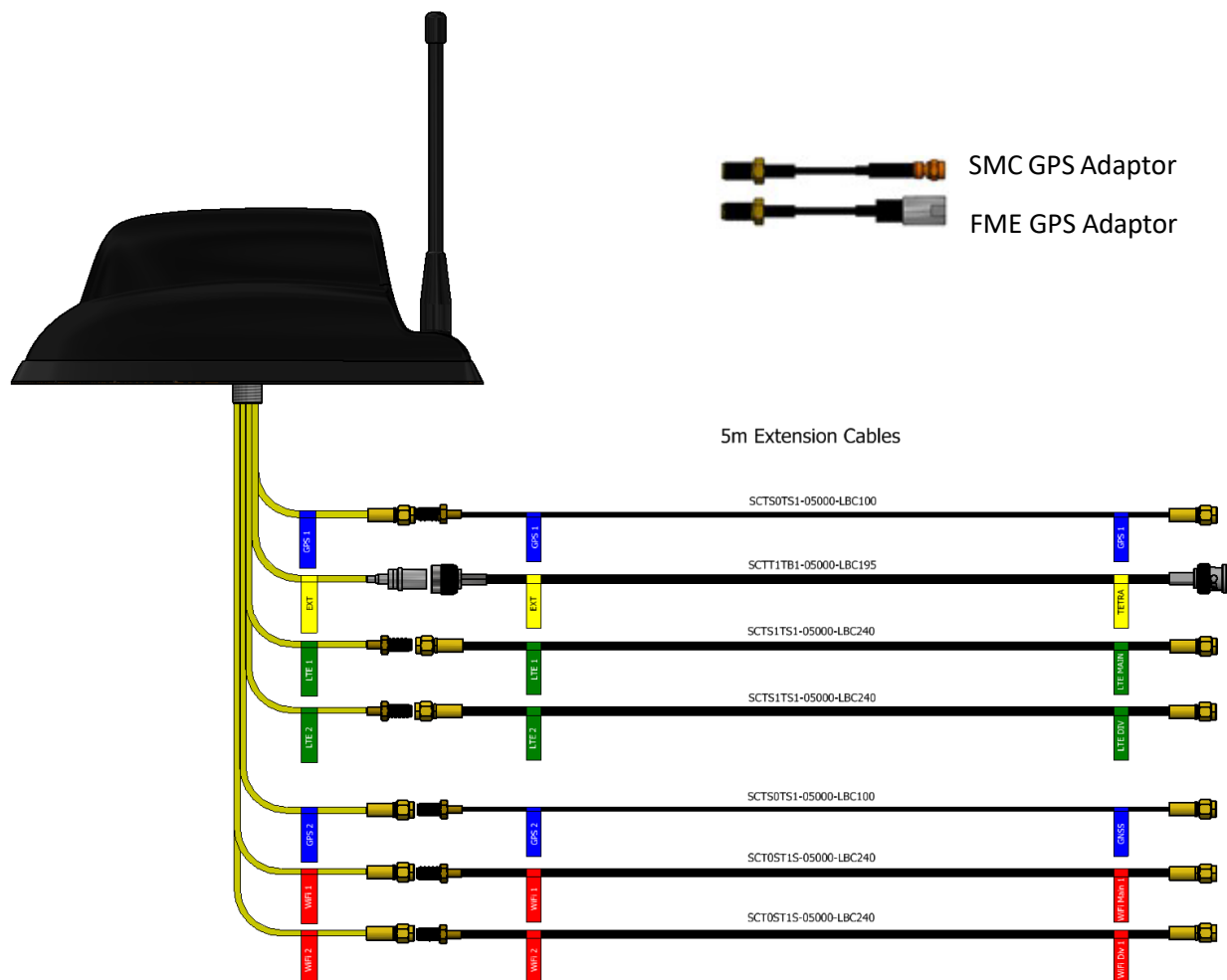
Subject to change without prior notice. \*Excluding external antenna

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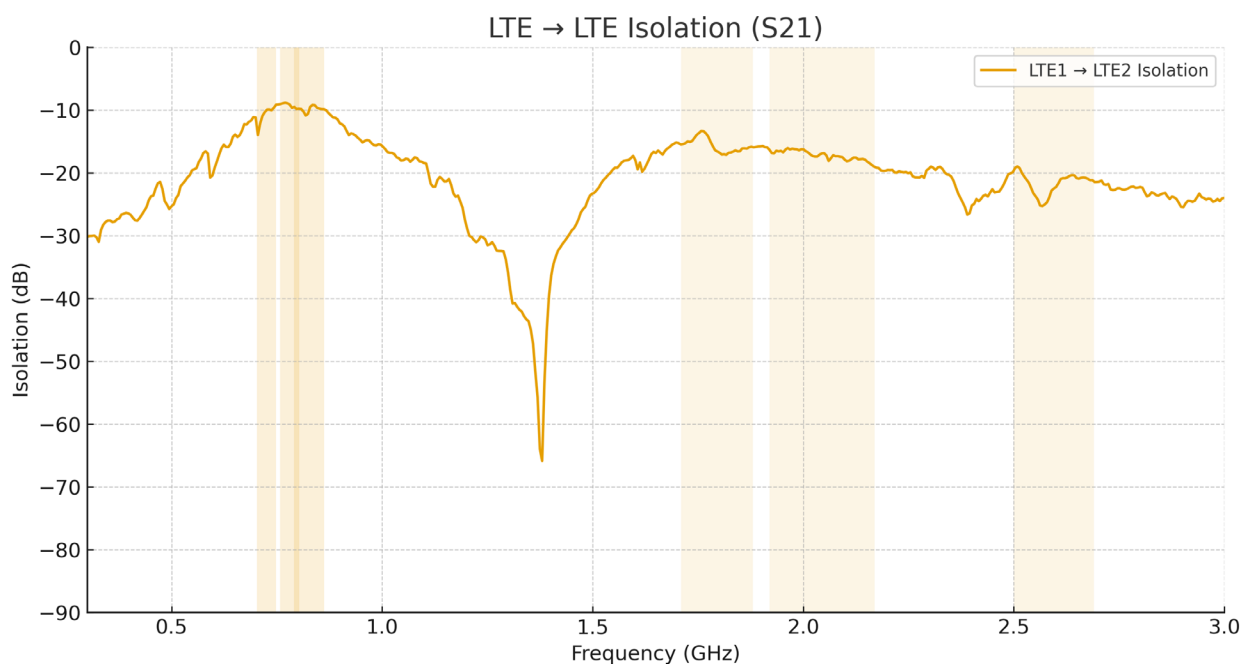
## Supplied Coax Extension Cables

| 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                                        |

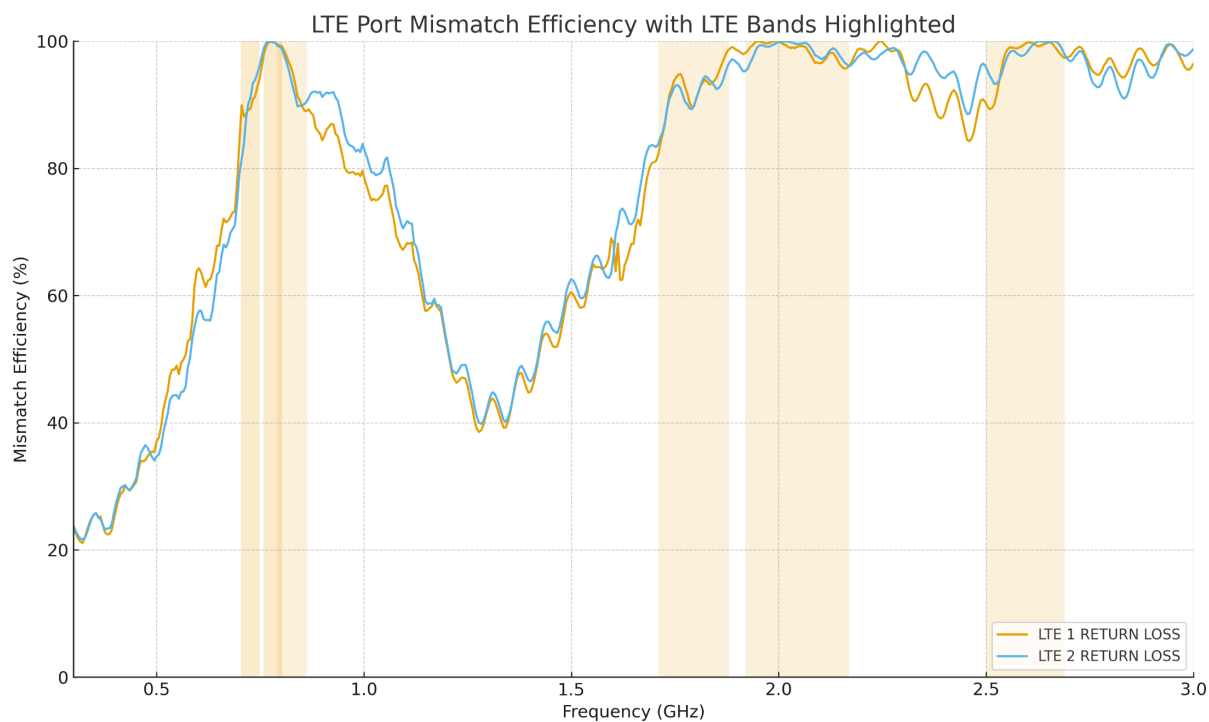
## Cable Diagram



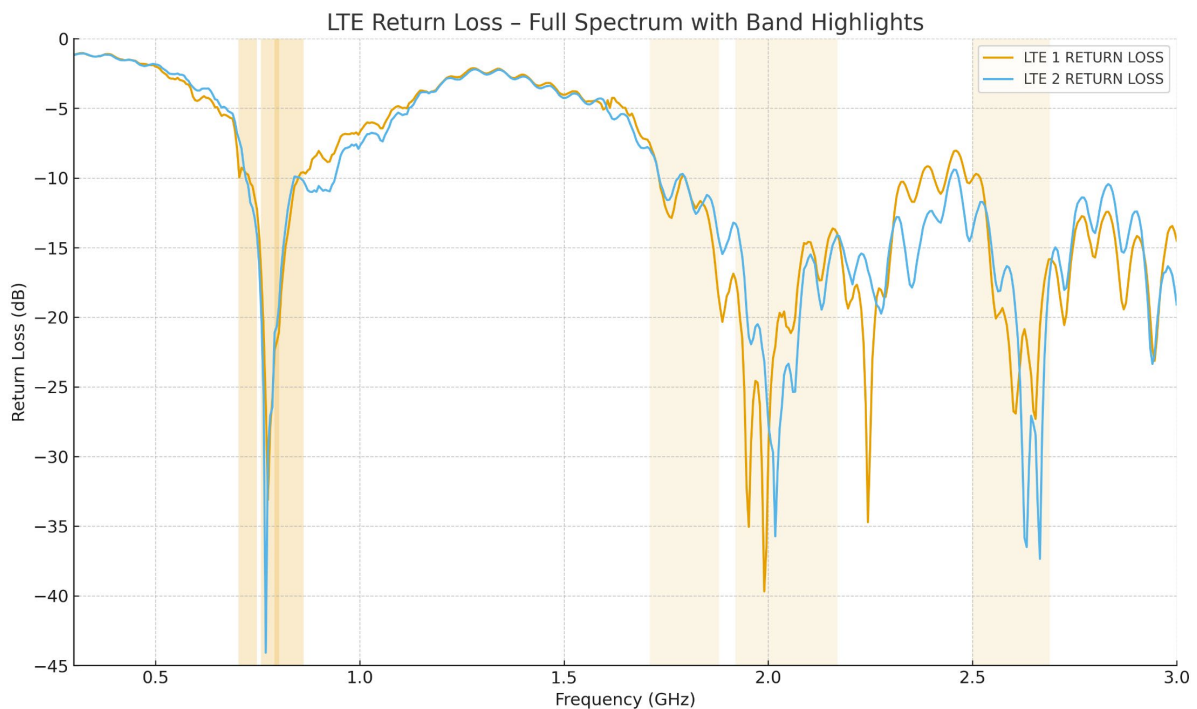
## LTE Isolation



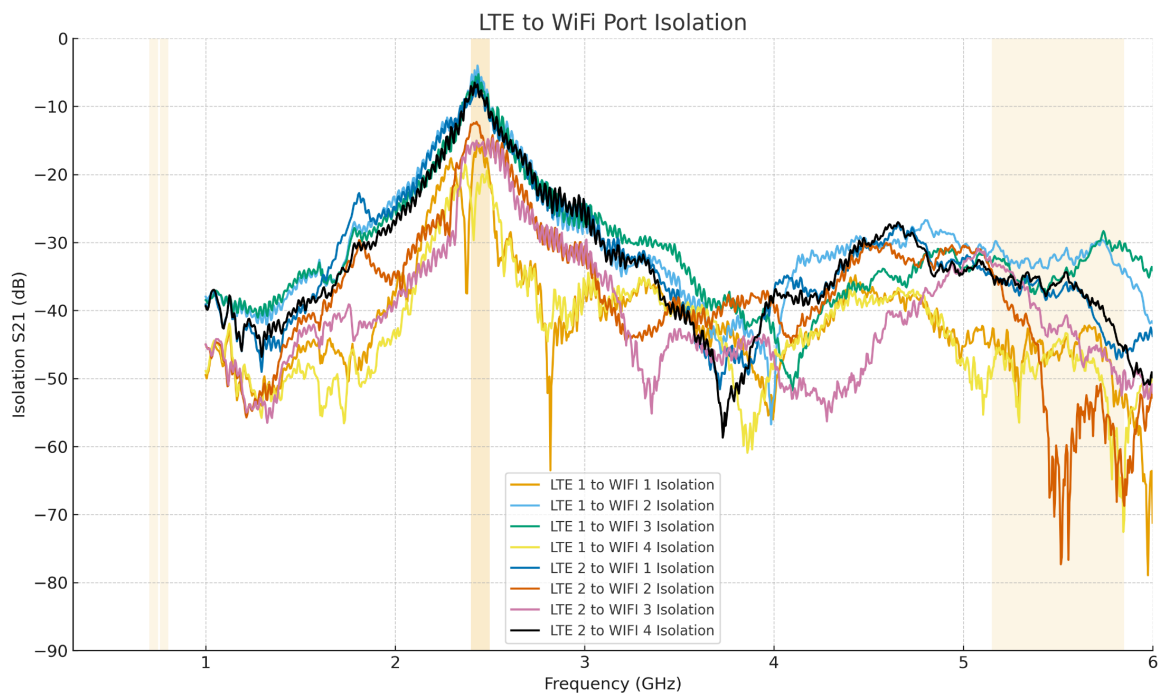
## LTE Port Mismatch Efficiency



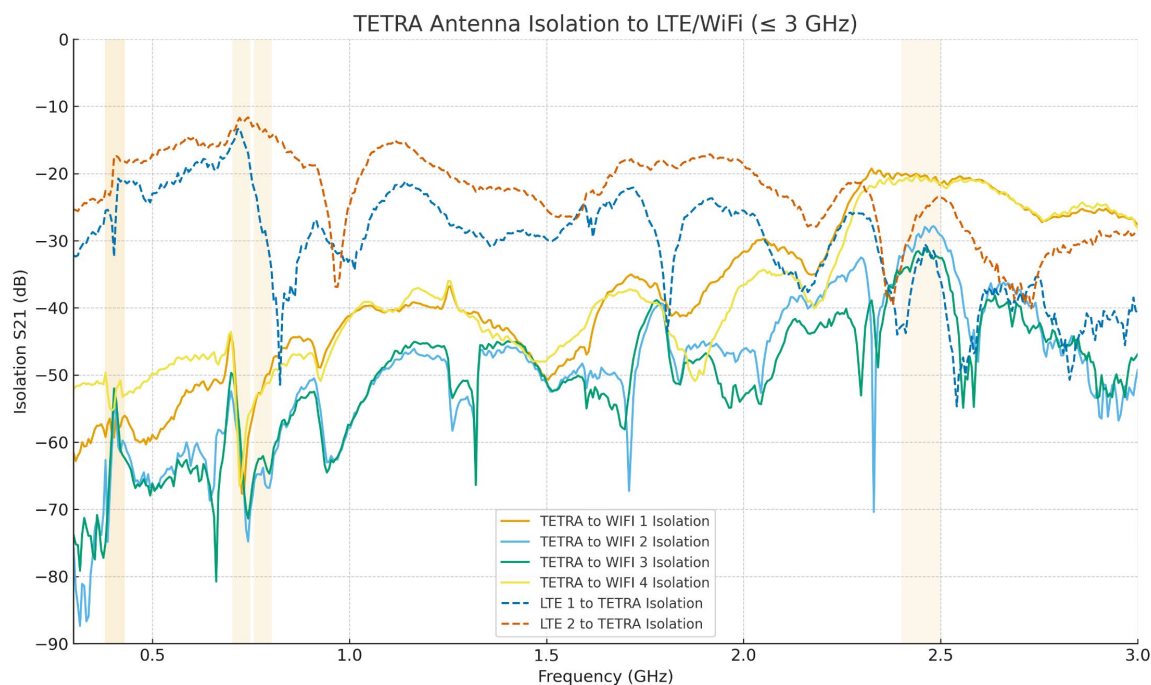
## LTE Return Loss



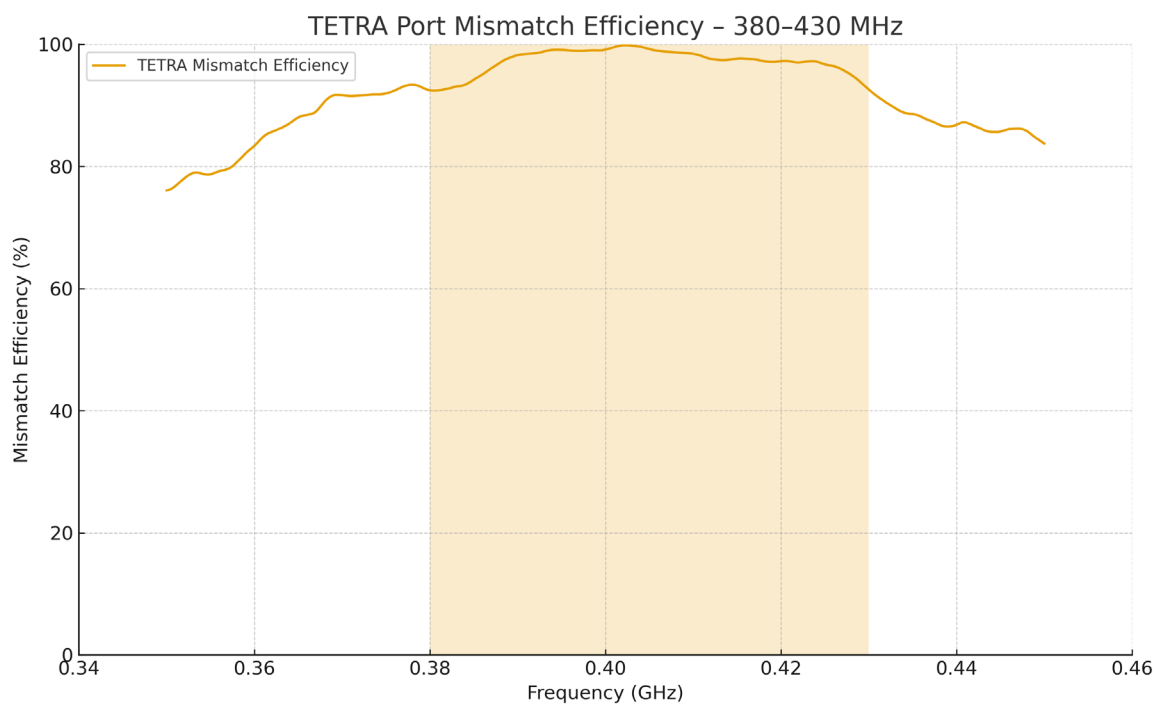
## LTE to Wi-Fi Port Isolation



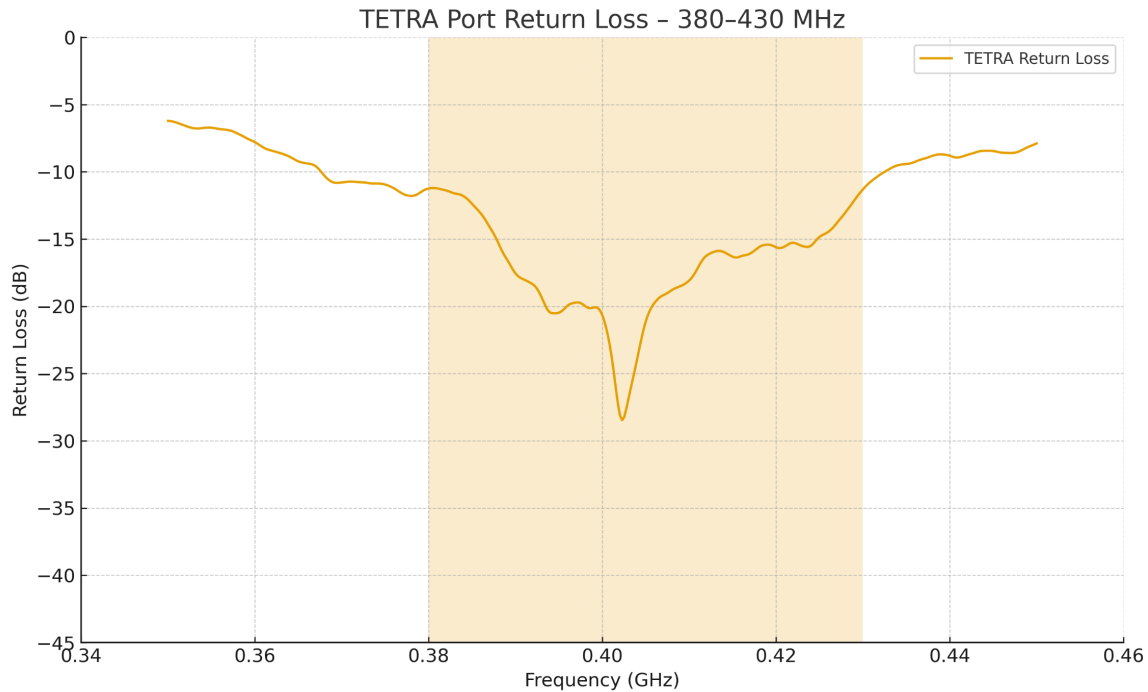
## TETRA to LTE/Wi-Fi Isolation



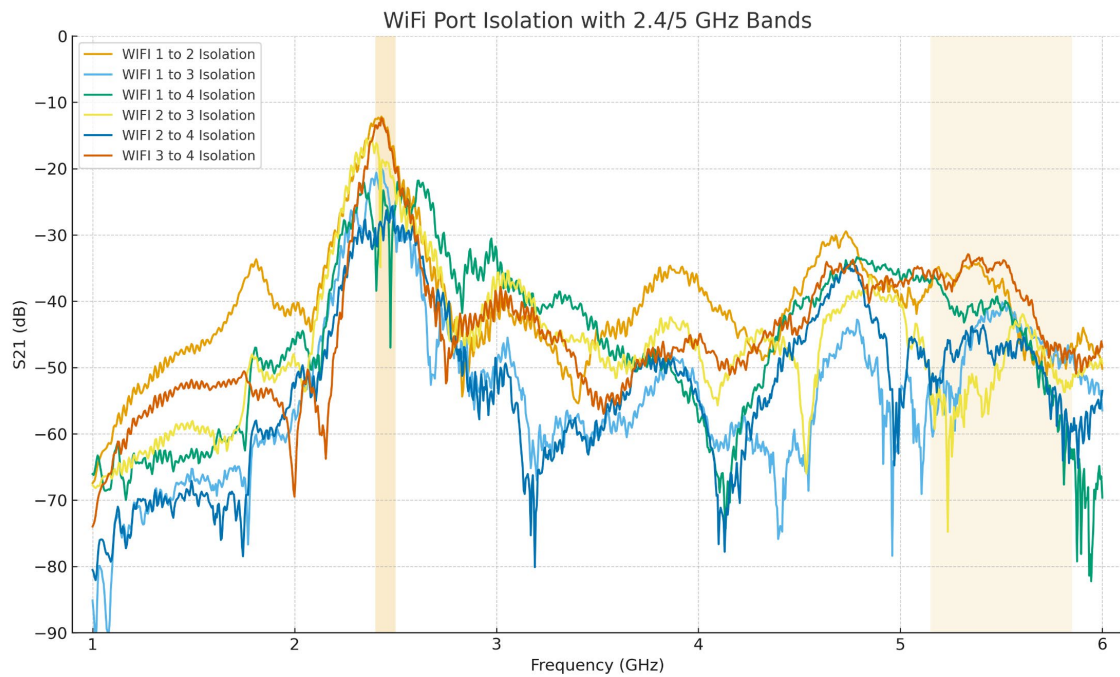
## TETRA Port Mismatch Efficiency



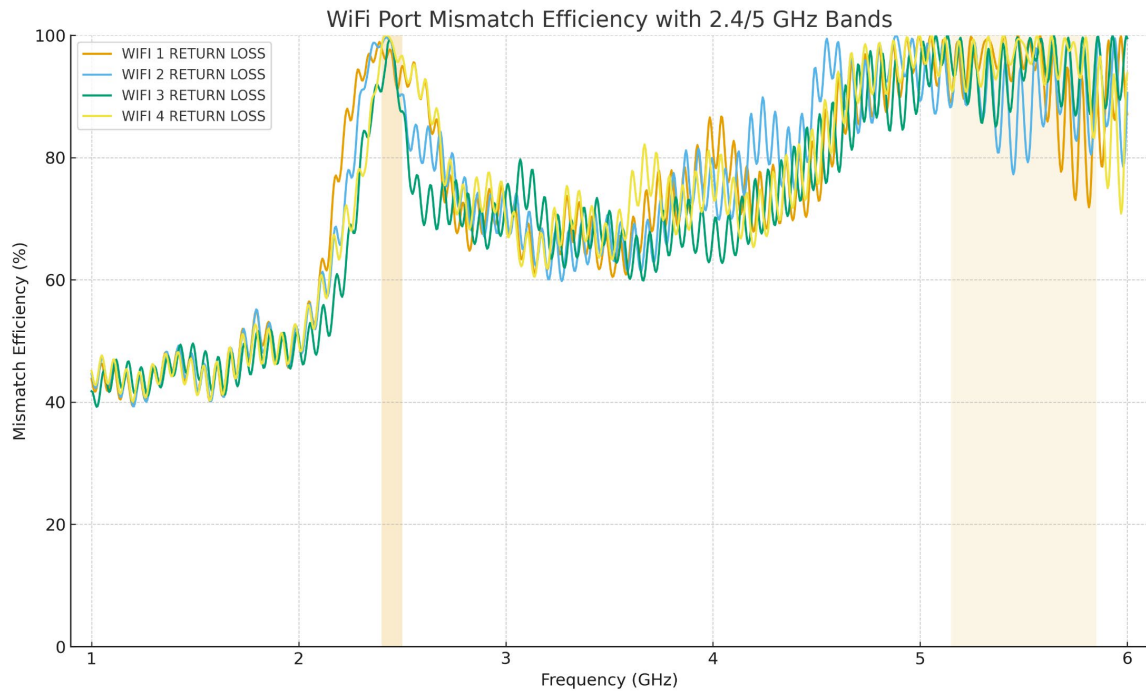
## TETRA Port Return Loss



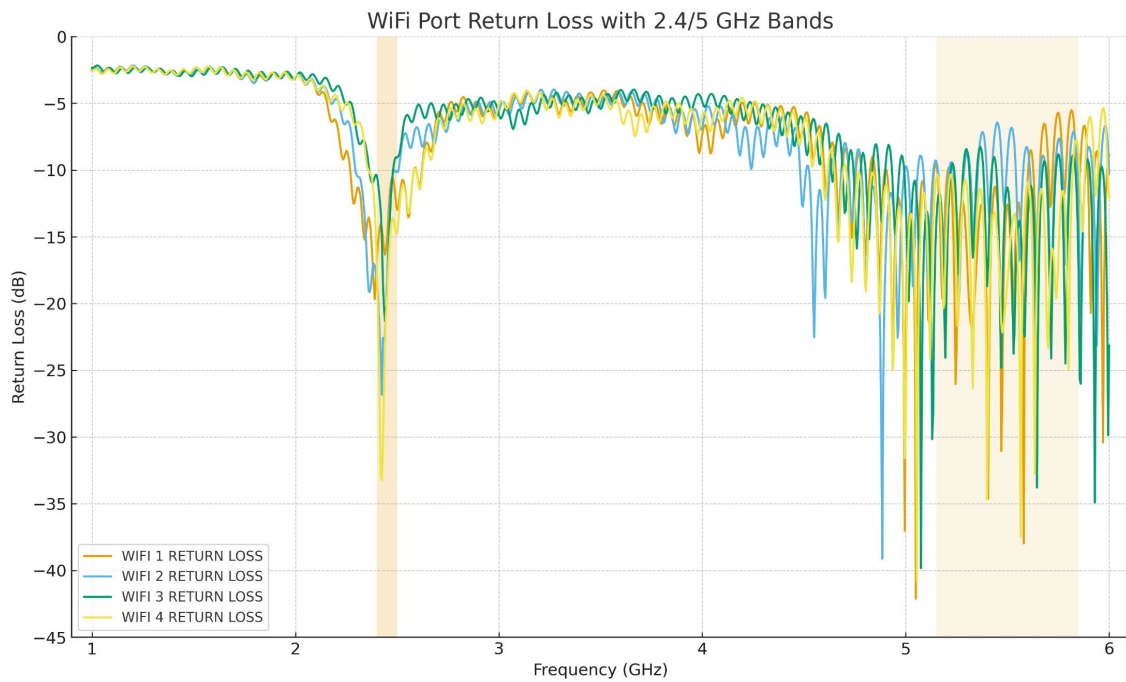
## Wi-Fi Port Isolation



## Wi-Fi Port Mismatch Efficiency



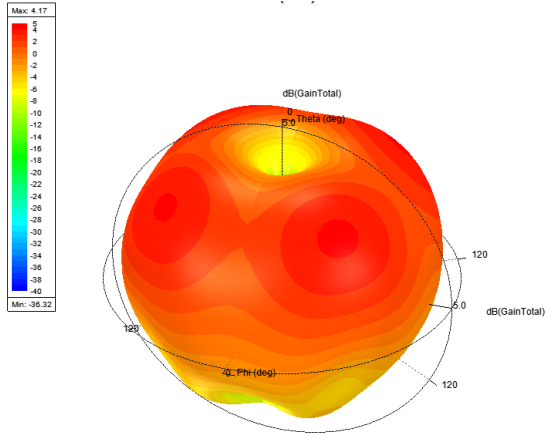
## Wi-Fi Port Return Loss



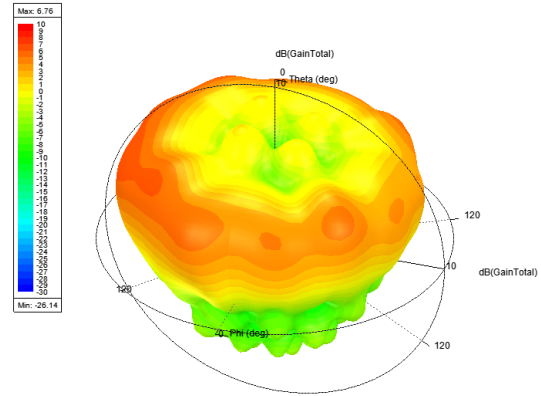
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## Antenna 3D Gain Plots

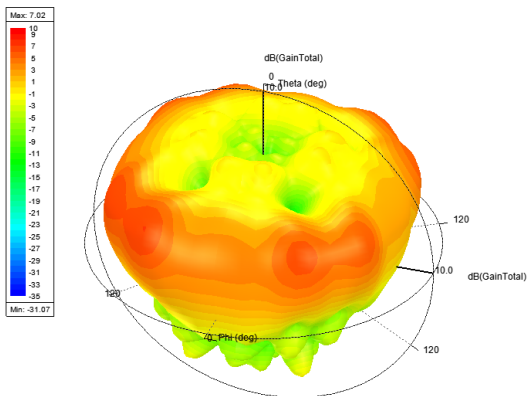
**820MHz**



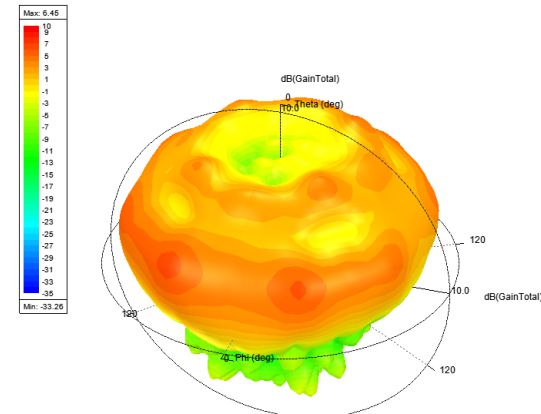
**1820MHz**



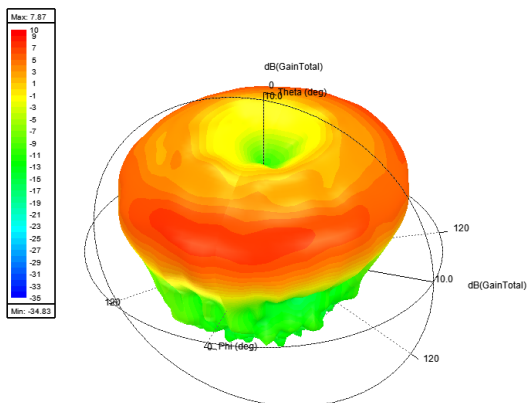
**2140MHz**



**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)

A brand of



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

