



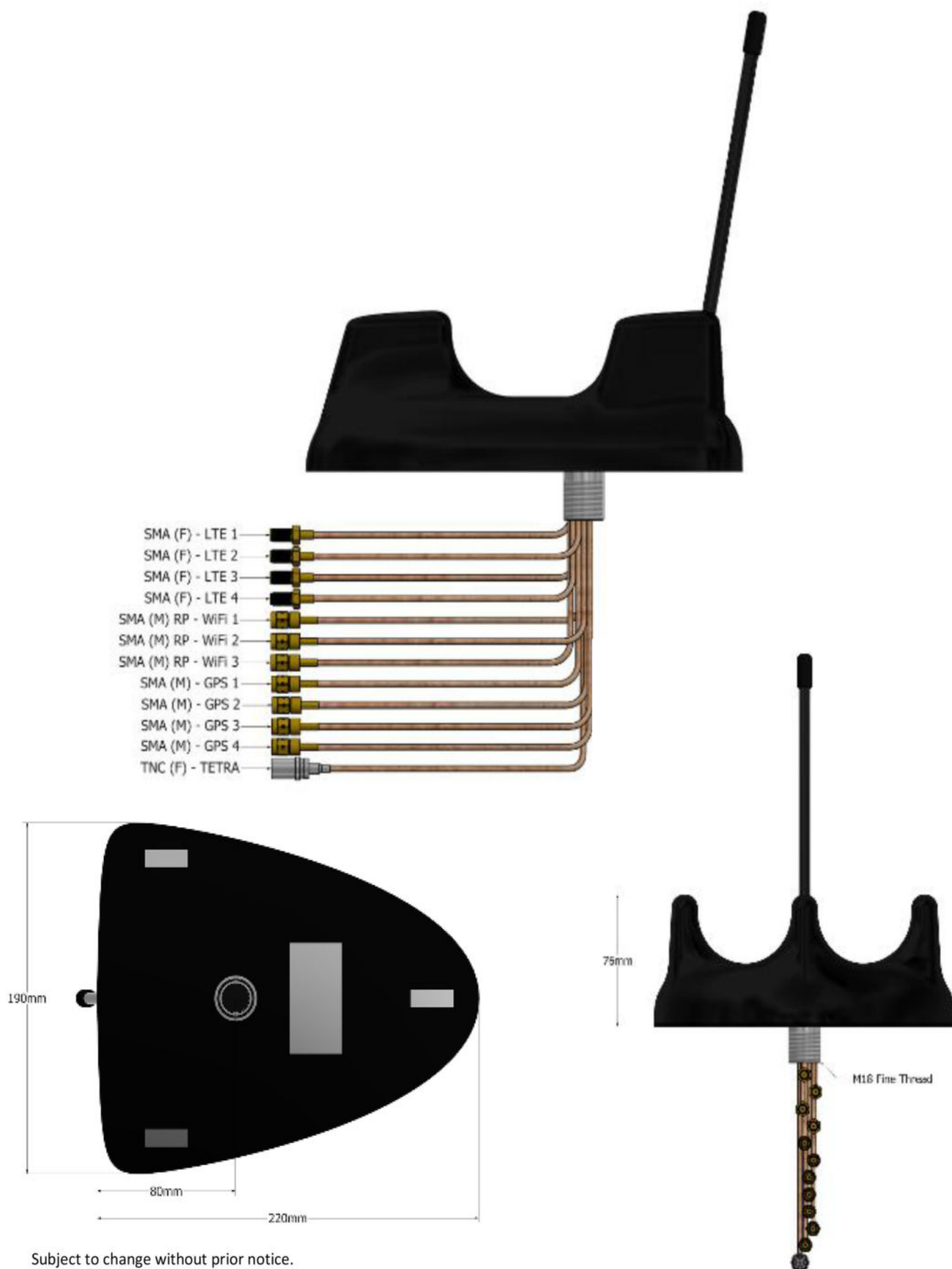
- 4x Wideband LTE 2G 3G 4G Elements
- Optional Support for Tetra/ WiFi/ LTE Whip
- 12 Functions and 1 Antenna
- Ultra Wide Bandwidth 700MHz – 6000Mhz
- Optional MiMo Dual Band WiFi/WiMAX
- Low Profile
- Simple Single hole installation
- GPS/ GNSS Ports DC isolated
- CE Directive 2014/53/EU Compliant

Part number 8000-310, affectionately named by us as the 'Sand Castle' is a multifunction antenna specifically designed to help future proof blue, and amber light vehicle fleets allowing 12 functions in single panel mounted antenna.

Boasting 4x Ultra-Wideband cellular antenna elements covering 700MHz to 6GHz, this antenna could future proof your vehicle installation for years to come. With a minimum 4dBi gain across the band, this antenna is an efficient option for all public safety applications. If the whip option is not being used the 'Sand Castle' can be mounted as a ground plane independent antenna allowing for an easier installation.

With the addition GPS, MiMo Dual Band WiFi, and optional Tetra whip, the need for drilling multiple holes in your vehicles roof is long gone, as this only needs a single 19mm hole. Other variants are available including extension cable kit options. Please contact us for more details.

Technical Drawing



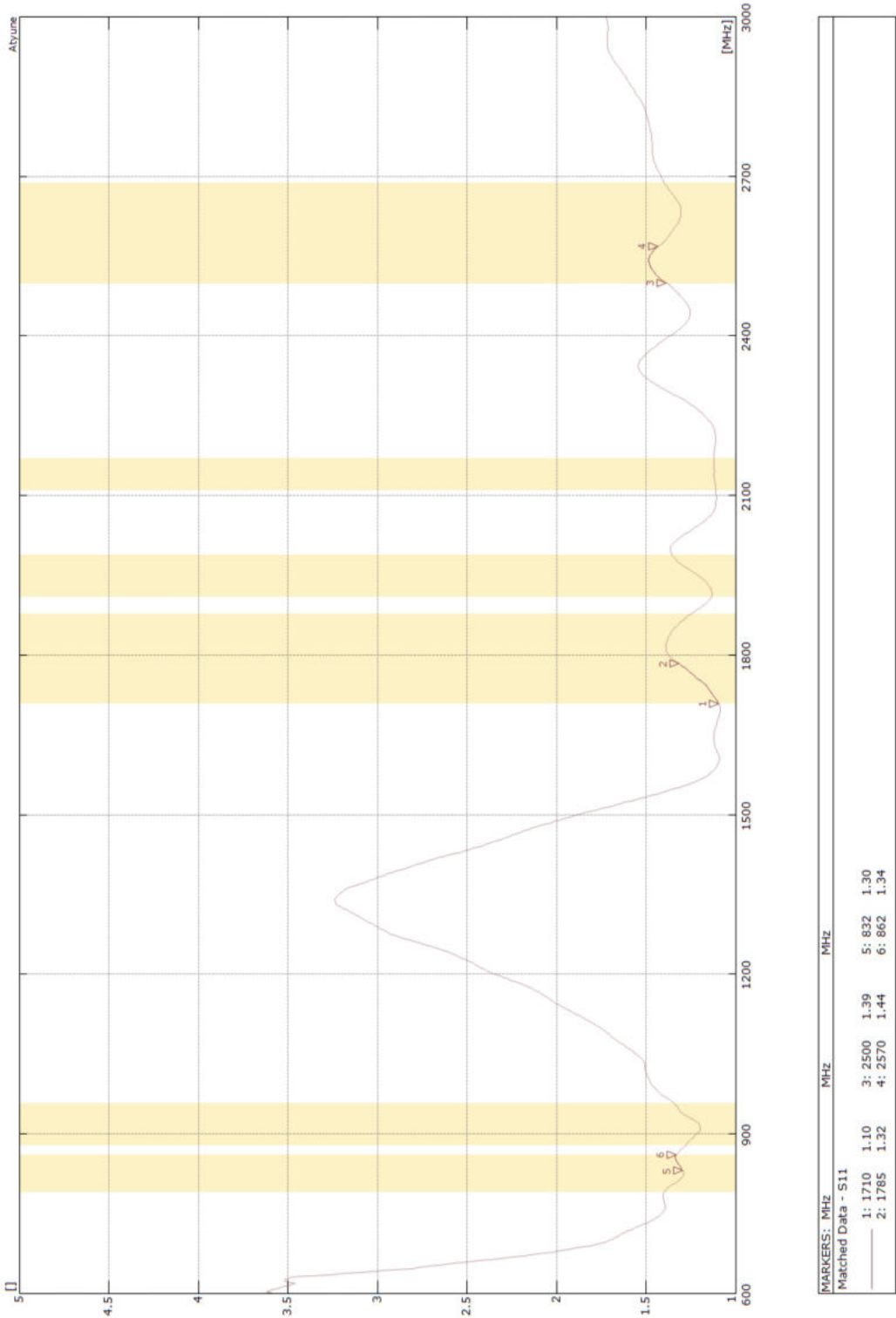
Technical Specifications

Part No	8000-310		
Electrical Data			
Frequency Range (MHz)	380 - 430 MHz	700-6000 MHz	2.4 GHz & 5.8GHz
Band	OPTIONAL TETRA WHIP	4xLTE	3xDual Band WiFi
VSWR	<2.1:1 TYPICALY 1.5:1	<2.1:1 TYPICALY 1.5:1	<2.1:1 TYPICALY 1.5:1
Gain	5dBi	Minimum 4dBi	Minimum 4dBi
Isolation	>15dB	>15dB	>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 Data			
Frequency Range (MHz)	1562-1612		
VSWR	<2:1		
Gain	26dB		
Polarisation	Right Hand Circular		
Operating Voltage	3-5v DC (fed via coax, each port is DC isolated)		
Cable	4x RG316 Terminated to SMA (m)		
Mechanical Data			
Dimensions (mm)	H76xW190xL220 *		
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)		
Material	ASB		
Colour	Black		
Weight (g)	600		
Cable Data			
Cable Type	RG316	RG316	RG316
length (mm)	200	200	200
Diameter	2.8	2.8	2.8
Termination	TNC (f)	SMA (f)	SMA (m) Reverse Polarity
Mounting Data			
Mounting Type	Panel mount with adhesive Panel Mount		
Mounting Hole (mm)	19mm		
Max Panel Thickness (mm)	10mm		

Subject to change without prior notice.

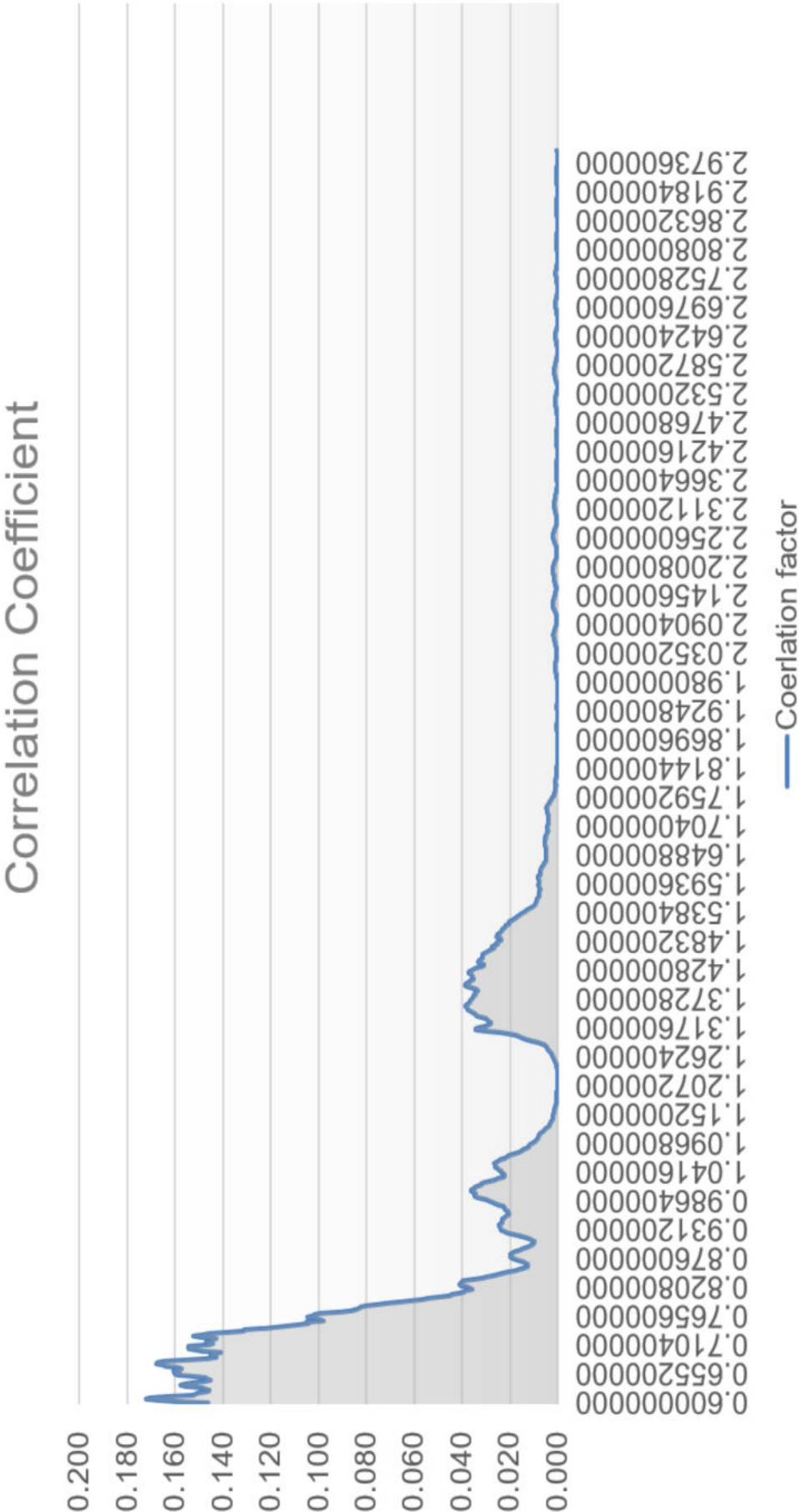
*Excluding optional whip

Electrical Data



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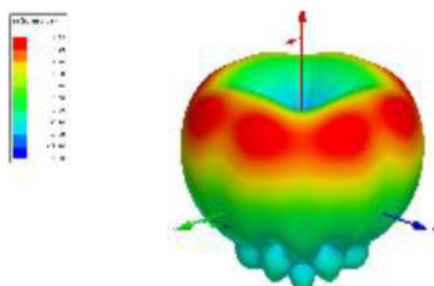
Electrical Data



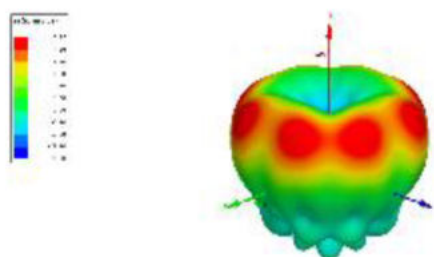
Subject to change without prior notice.

Radiation Pattern

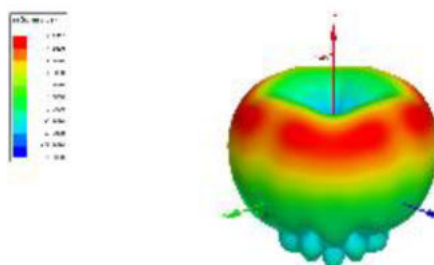
700Mhz



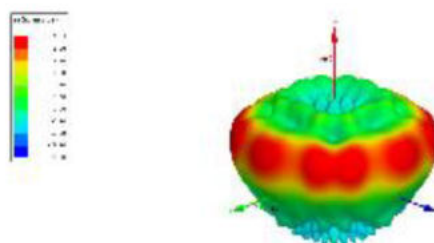
800MHz



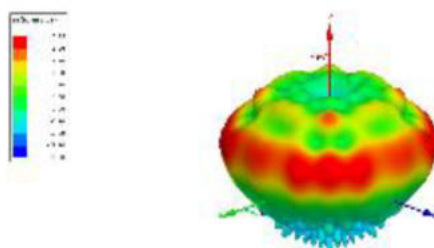
900Mhz



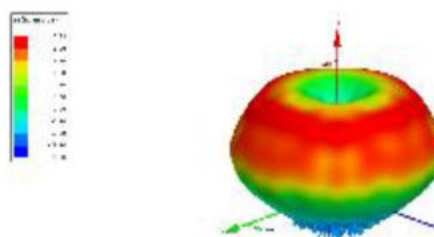
1800Mhz



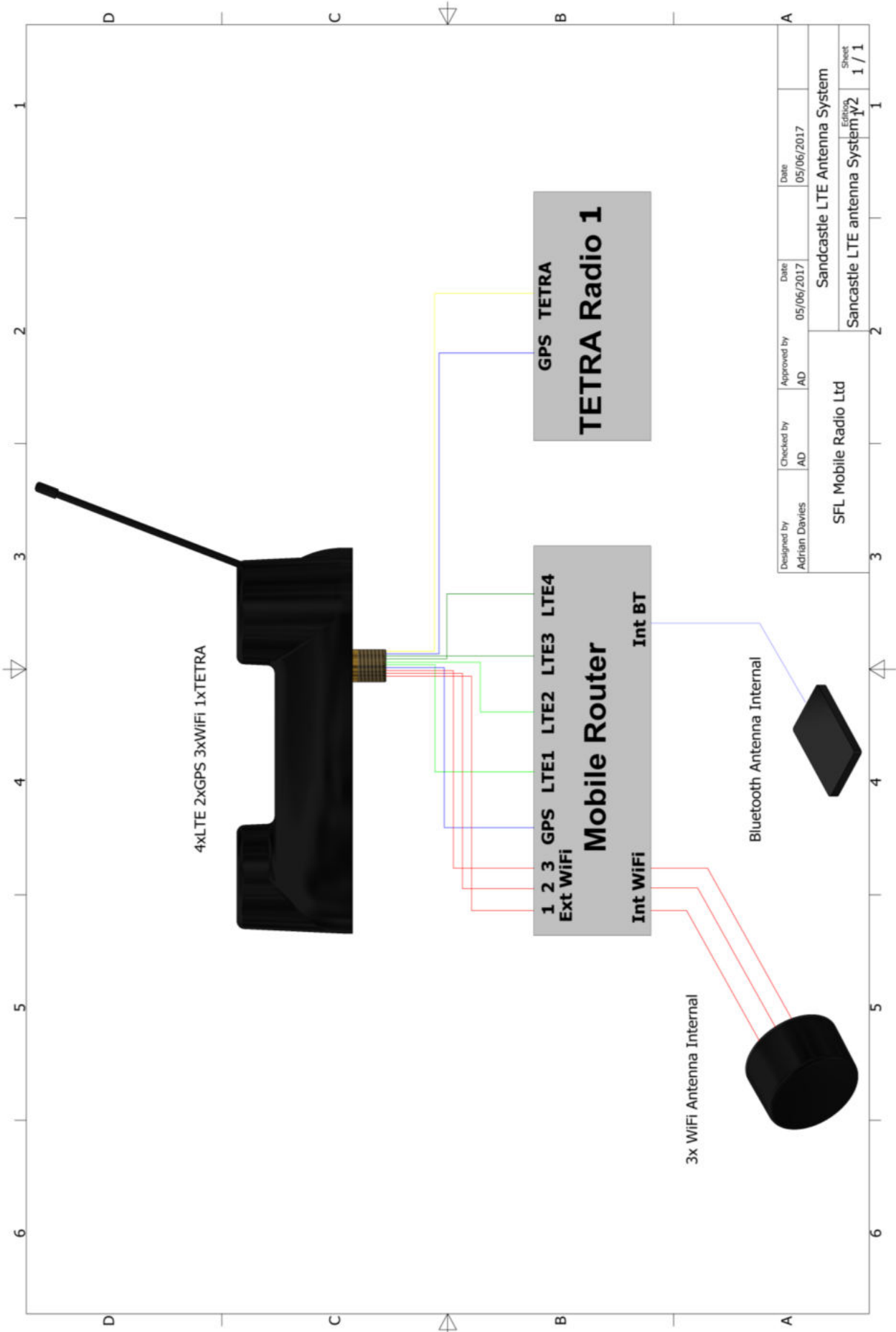
2100Mhz



2600Mhz



Example Ambulance System



Designed by Adrian Davies	Checked by AD	Approved by AD	Date 05/06/2017	Date 05/06/2017	Sandcastle LTE Antenna System	
SFL Mobile Radio Ltd					Revision v2	Sheet 1 / 1
3	1	2	1			