

8000-331 Sandcastle Antenna 11-in-1 - Black



The **Sandcastle** is a versatile antenna designed to future-proof blue and amber light vehicle fleets. This compact, panel-mounted unit combines **11 functions** into a single device, streamlining communication capabilities.

Equipped with **four wideband cellular antenna elements**, the Sandcastle supports frequencies from **698MHz to 6GHz** and has been tuned to offer optimal performance between **713-778MHz**. It delivers a minimum **4dBi gain** across this range, ensuring strong and reliable connectivity for various applications. Additionally, it can be installed **ground plane-independent**, simplifying the setup process.

This variant of the 'Sandcastle' Antenna incorporates **4x LTE, 1x GPS & 6x Wi-Fi functions**, all accessible through a single **19mm mounting hole** in the vehicle's roof. This design eliminates the need for multiple installations, reducing setup time while preserving the vehicle's structural integrity.

Technical Specifications

Electrical Data	2G 3G 4G 5G	Wi-Fi
Frequency Range (MHz)	698-6000 MHz	2.4 GHz & 5.8GHz
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, each port is DC isolated)	
Cable	2x RG316 Terminated to SMA (m)	
Mechanical Data		
Dimensions (mm)	H76xW197xL227	
Operating Temp (°C)	-40 / +80°C (-40° / 176°F)	
Material	HDPE	
Colour	Black	
Weight (g)	600	
Mounting Data		
Mounting Type	Panel Mount with Open Cell EPDM Foam Pad	
Mounting Hole (mm)	19mm	

Subject to change without prior notice.

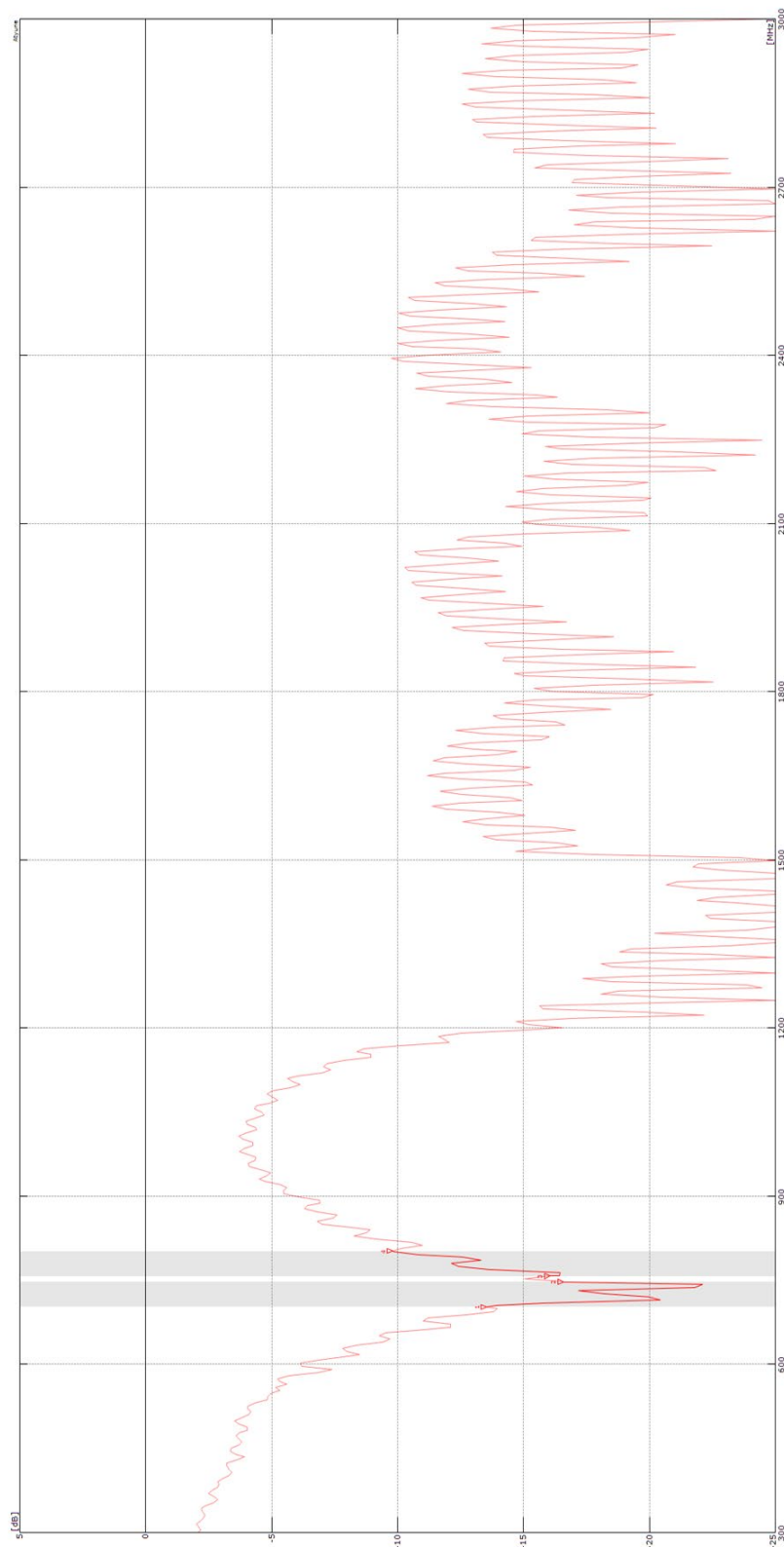
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Technical Dimensions

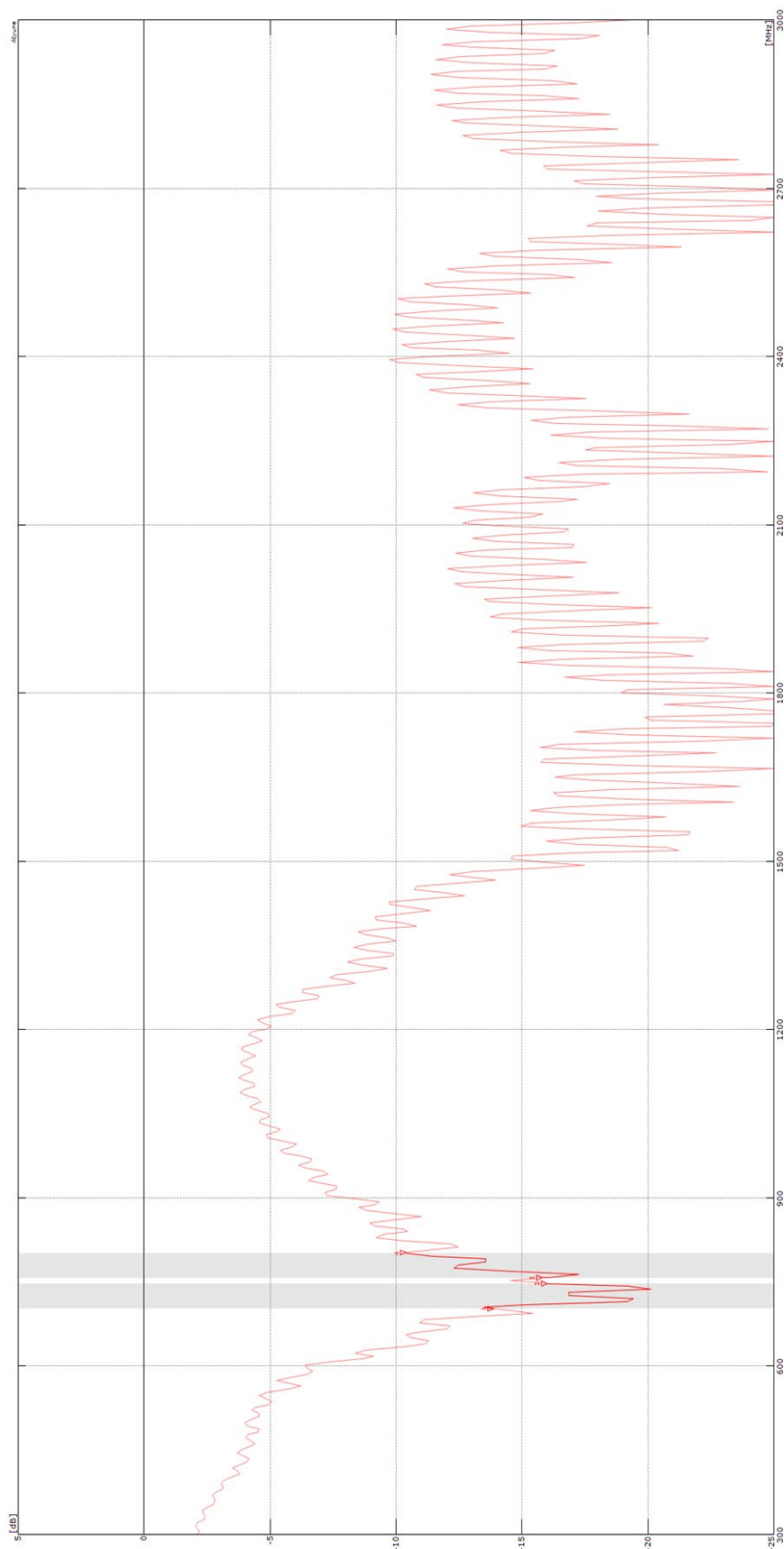


VSWR Plots

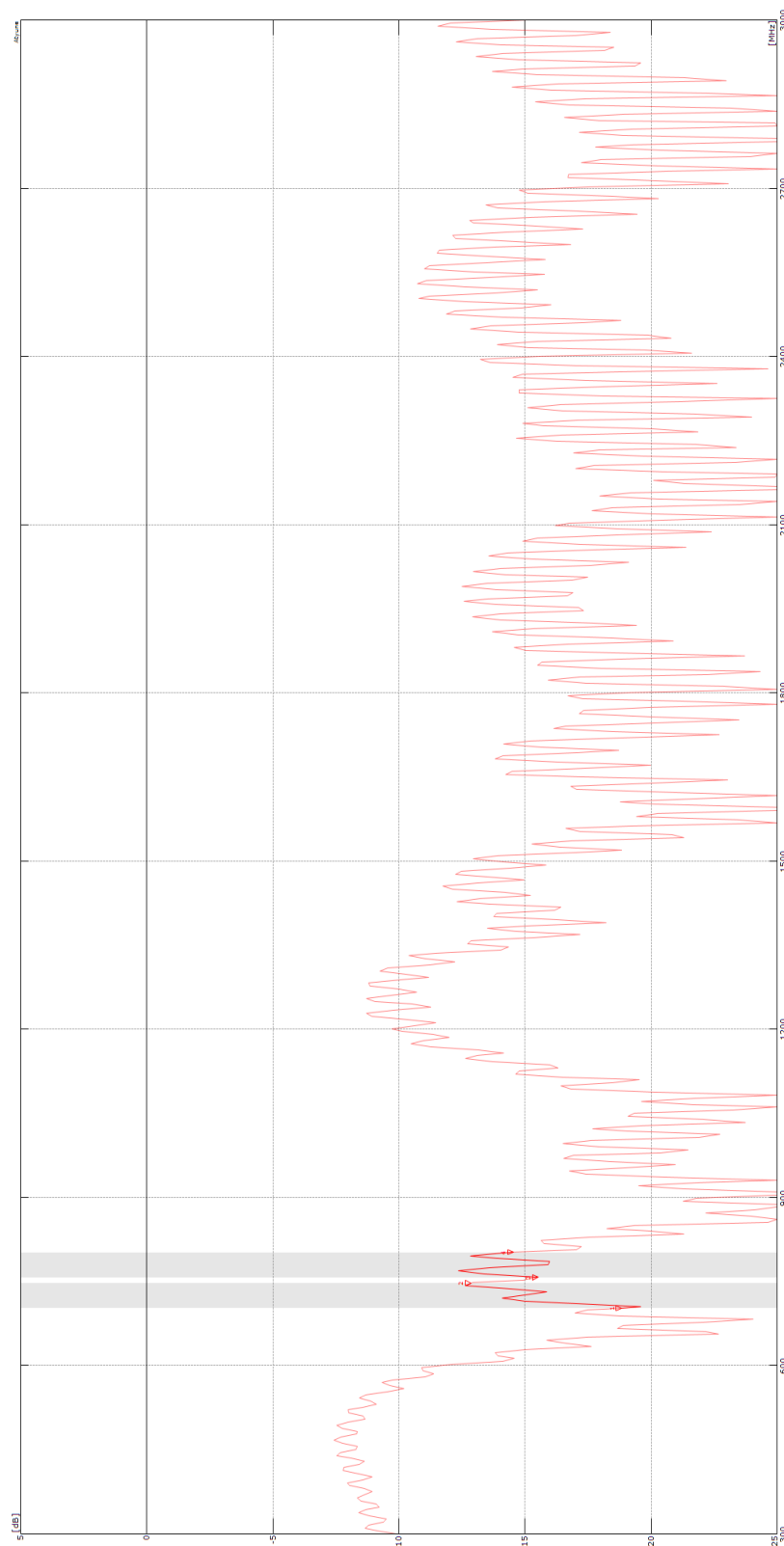
Return Loss LTE1



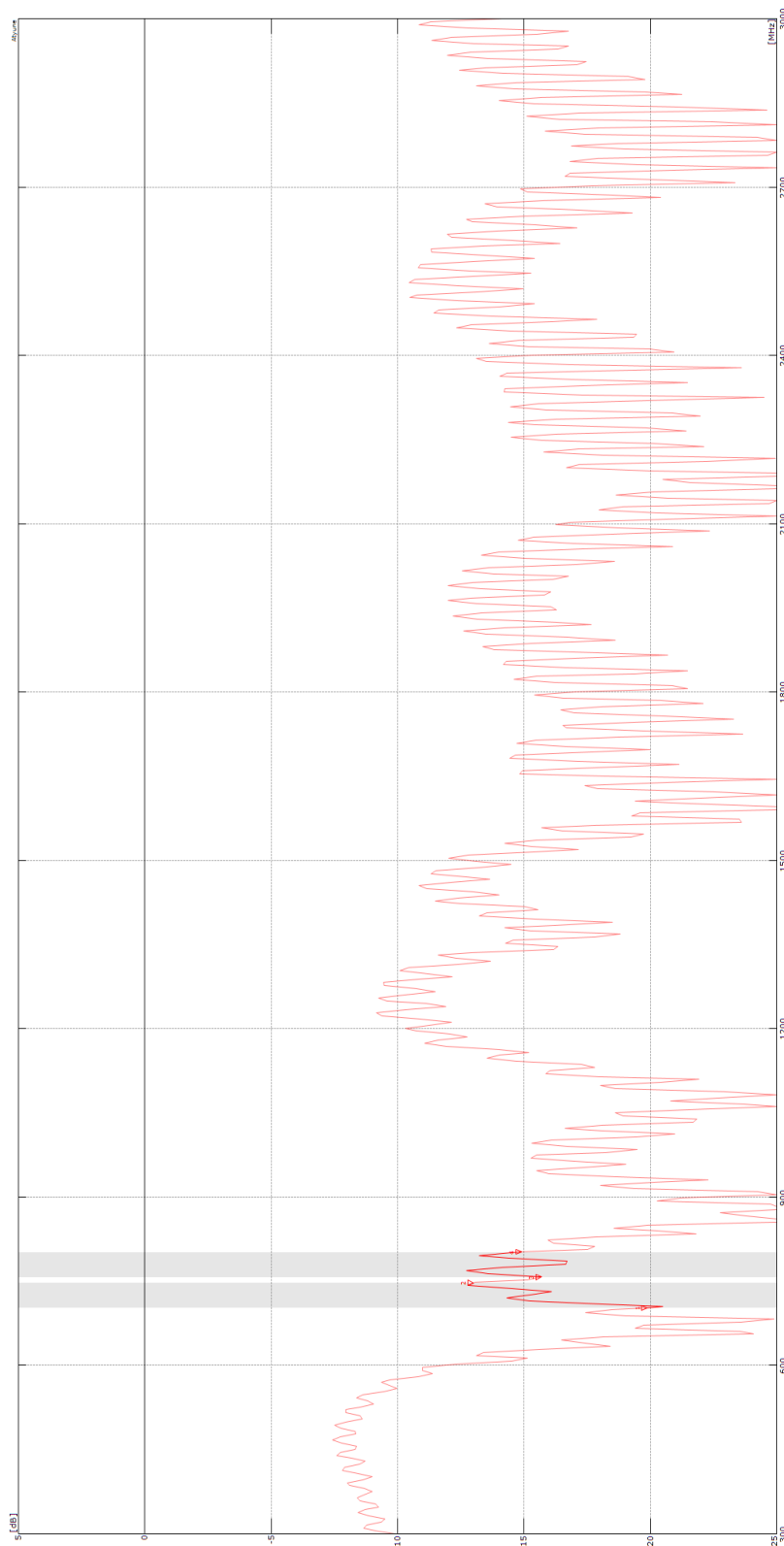
Return Loss LTE2



Return Loss DIV1



Return Loss DIV2



All graphs subject to change.

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