Antenna Specification

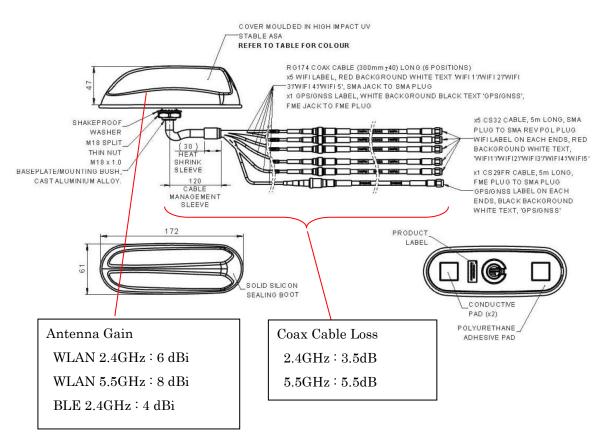
<u>Product No :</u> SH-IN2568 (Body Color: Black) SH-IN2568-W (Body Color: White)

<u>Antenna type :</u> Sharkfin Antenna 4 elements for WLAN 2.4/5.0GHz 1 elements for BLE 1 elements (patch antenna) for GPS/GNSS

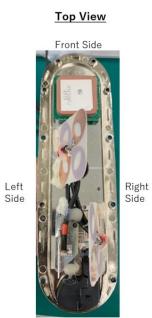
Frequency (Operational bands) WLAN 2.4GHz : 2412 to 2462 MHz WLAN 5.0GHz : 5280 to 5825 MHz BLE 2.4GHz : 2402 to 2480

Total Gain (Antenna+Coax Cable)

WLAN 2.4GHz : 2.5 dBi (AntennaGain 6dBi – Coax Cable Loss 3.5dB) WLAN 5.0GHz : 2.5 dBi (Antenna Gain 8dBi – Coax Cable Loss 5.5dB) BLE 2.4GHz : 0.5 dBi (Antenna Gain 4dBi – Coax Cable Loss 3.5dB)



Internal structure



Rear Side





Right View

Left View

WLAN1(STA) core1 WLAN2(AP) core0



Bluetooth



Front View

Rear View



4x4MiMo + 1 2.4/5.0GHz Sharkfin Antenna with GNSS PANORAMA (PANORAMA (PANORAMA) SH-IN2568



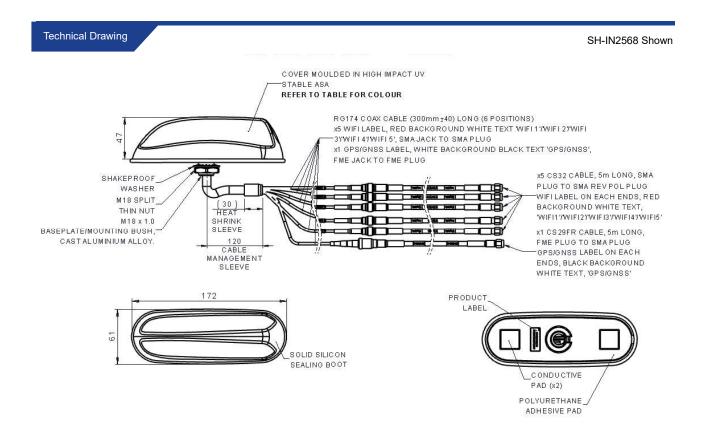
5x 2.4/5.0GHz elements GPS/GNSS element with 26dB gain Sleek sharkfin housing Supplied with fitted 5m cables

The SH-IN2568 range combines 5x 2.4/5.0GHz elements with an active GPS/GNSS element with 26dB gain in a sleek sharkfin housing.

The antenna features $4x \ 2.4/5.0$ GHz elements configured polarised at +/-45 degrees for 4x4 MiMo applications and a single 5th 2.4/5.0GHz element which is vertically polarised for sensor, Bluetooth or similar applications.

The sharkfin antenna styling is both discreet and robust featuring a low profile UV resistant fin housing and IP66 ingress protection rating.

The antenna is supplied with 5m(16') low loss extension cables for easy installation.



4x4MiMo + 1 2.4/5.0GHz **Sharkfin Antenna with GNSS**

SH-IN2568

Product Data

Part No.			
		SH-IN2568 SH-IN2568-W	
Electrical Data			
Frequency range (MHz)	Elements 1-4	4x 2396-2485 / 4900-6000MHz	
	Element 5	1x 2396-2485 / 4900-6000MHz	
	Element 6	1562-1612MHz	
Operational bands	Element 1-4	4x 2.4/5.0GHz	
	Element 5	1x 2.4/5.0GHz	
	Element 6	GPS/GNSS	
Nominal Impedance	Elements 1-5	50 Ohms	
Typical VSWR*	Elements 1-5	<2:1	
Radiation pattern	Elements 1-5	Omni-Directional	
Nominal polarisation	Elements 1-4	+/- 45deg	
	Element 5	Vertical	
	GHz	6dBi (Elements 1-4) 4dBi (Element 5)	
	GHz	8dBi (Elements 1-4) 5dBi (Element 5)	
1_1 (worst case)**	GHz	>15dB	
	GHz	>17dB	
Efficiency - excluding cable loss (elements 1-4)		>70%	
Correlation co-efficient (all bands)		<0.1	
Max input power (W)		20 Watts	
GPS/GNSS Data			
Frequency range (MHz)		1562-1612	
Typical LNA gain (dB)		26 +/- 3	
Typical Current (mA)		15	
Nominal Operating Voltage		3-5 V DC	
Mechanical Data			
Dimensions (mm)	Height	50 (1.96")	
	Width	61 (2.4")	
	Length	172 (6.77")	
Operating temp (°C)		-40° / +80°C (-40° / 176°F)	
Material		ASA	
Colour		Black White	
IP Rating		IP66	
Weight (g)		1500	
Mounting Data			
Fixing		Panel Mount	
Hole diameter (mm)		18 (3/4")	
Cable & Connector Data			
Cable Type		WiFi Cables: CS32 FRZH GNSS Cable: CS29 FRZH (Both meet EN6722 / EN45545-	-2)
Diameter (mm)		5 (0.2")	/
Length (m)		5 (16.4')	
Connector		SMA Rev Pol x5 WiFi SMA (m) GNSS	

+ Peak gain derived from CST Microwave Studio on a 600x600mm (2'x2') ground plane and excludes cable loss.

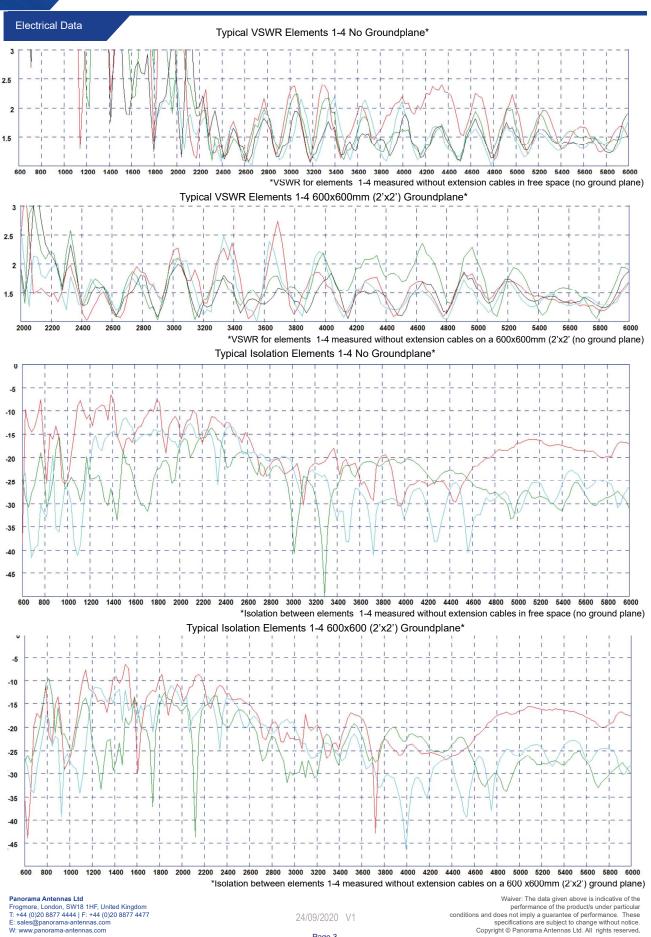
* Typical VSWR measured on a 600x600mm (2'x2') ground plane excluding cable loss.

**Typical isolation measured on a 600x600mm (2'x2') ground plane excluding cable loss.

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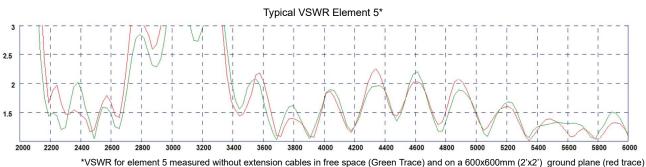
Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice. Copyright © Panorama Antennas Ltd. All rights reserved.

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SH-IN2568



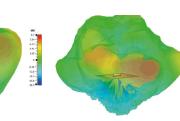
Typical 3D Pattern Elements 1-4 600x600mm 2.45GHz*

Typical 3D Pattern Element 5 600x600mm

2.45GHz*

Radiation Patterns

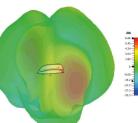




Typical 3D Pattern Elements 5 600x600mm 5.4GHz*



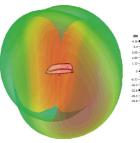
Typical 3D Pattern Elements 1-4 No GP 5.4GHz*



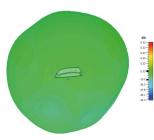
Typical 3D Pattern Element 5 No GP 5.4GHz*

2.86 2.22 1.99 0.953 0.953

Typical 3D Pattern Elements 1-4 No GP 2.45GHz*



Typical 3D Pattern Elements 5 No GP 2.45GHz*



Typical E Plane Pattern GPS 1575MHz*

