



SGDB-MM-N

Mast mount mobile phone/wireless data improvement collinear
All networks dualband 4G 825-960 MHz & 1710-2190 MHz



The SGDB-MM-N is a mast mount collinear, designed and manufactured to improve your mobile phone and wireless data receive and transmit.

Please note: The SGDB-MM-N will not receive signal where no signal is present, please check your carrier coverage map for signal location/strength.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	White parallel fibreglass radome, stainless steel mount section and external termination
Frequency range	825-960 MHz & 1710-2190 MHz - all networks dualband 4G
Bandwidth	Full frequency ranges stated
VSWR	<1.6:1 at centre and <2.1:1 at edges
Tuning	Factory
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
DC grounding	Yes
H Plane	360° omnidirectional
E Plane	32°
Connector	N-type female in base of mount section
Height	1.4 metres
Weight	1.2kg
Mount section	Height: 400mm, Diameter: 22.2mm - 304 stainless steel
Projected area	0.017m ²
Wind load at 160kph	2.044kg, 0.020kN
Mounting hardware order separate	See following pages for suitable mount hardware
Mounting position recommended	Mount as high on your structure ,mast or tower using the appropriate mounting clamp/s.
Installation requirements	Waterproofing amalgamation tape SKU: A-8574 and PVC tape SKU: A-8651-0 for all terminations.

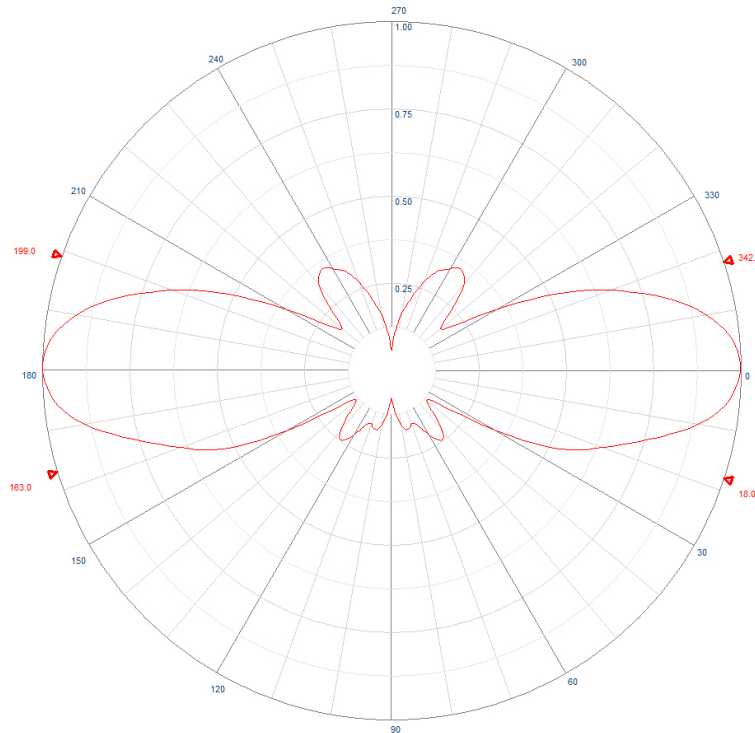


N-type female in base of mount section



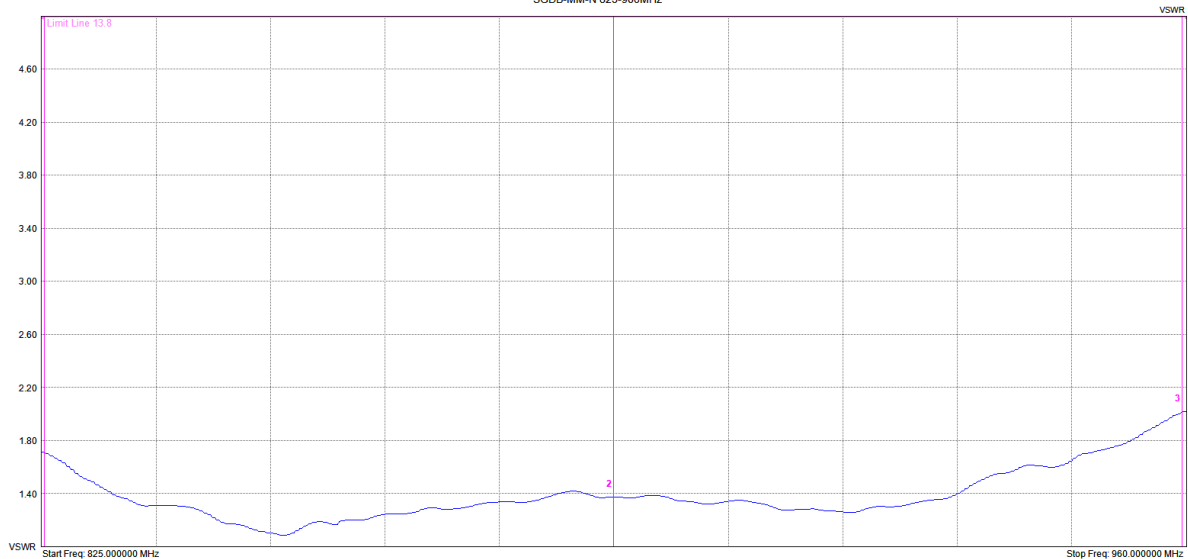
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Example radiation pattern

Typical Return Loss
SGDB-MM-N 825-960MHz



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	825.243 MHz	1.71VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	892.500 MHz	1.38VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	959.509 MHz	2.02VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical VSWR at 820-960 MHz




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SKU: CFB series
Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires: mounting screws/bolts and mounting hardware for antenna - see below




SKU: A-2654-2
Aluminium pole extension 1.1 metres includes pole mounting brackets.


Requires: mounting screws/bolts and mounting hardware for antenna - see below




NBS Anodised aluminium telescopic masts
2 to 6 sections
3-16 metre extended
Quick-install mounts available
[Contact us for more info.](#)



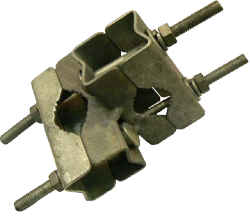
SKU: NSM-B20M
2 units recommended
Machined toughen nylon wall/side mount
20-22.2mm capability
Requires 16mm hole. Mount bolts supplied



SKU: EB1-SS
2 units recommended
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



SKU: UB3-SS
2 units recommended
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



SKU: RB8
2 units recommended
Galvanised steel right-angle clamp
Boom: 20-40mm capability
Mount pole: 20-40mm capability



SKU: UB2-SS
2 units recommended
304 stainless steel steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



SKU: 7800
MIL-SPEC RG213 stranded conductor, solid PE dielectric coaxial cable

Available in 100m or 300m rolls or alternatively request a custom cable assembly



SKU: NM-7937
N-type male crimp connector for MIL-SPEC RG213

Tri-metal plated



SKU: 7890-100 / 7890-300
RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(* times microwave)

Available in 100m, 300m or 500m rolls or alternatively request a custom cable assembly



SKU: NM-8226
N-type male crimp connector for RU400 low loss, solid conductor

Tri-metal plated