

Antenna

Low Profile Antenna
NB-IoT Band 28 &
LIPD/ISM Band



KEY FEATURES

- NB-IoT Band 28 (703-803MHz) / LIPD Band (915-928MHz) external antenna
- Low profile design for mounting on meter pit lids and flat surfaces
- IP68* rating provides high degree of protection against ingress of dust and moisture
- Light-weight and easy to install, with stainless steel spilt nut
- Suitable for both urban and rural deployments
- Tested on a wide range of Australian and New Zealand meter lids



Electrical	
Band	NB-IoT Band 28 703 to 803MHz LIPD band 915 to 928MHz
Antenna Average Gain	2.0~3.5dBi
Nominal Impedance	50 ohm
Polarization	Vertical
Mechanical	
Dimensions	Dome Ø 56 mm × H 8.6 mm Shaft Ø 16 mm
Cable/length	CFD195 Low Loss (1m or 2m variants)
Connection	SMA male
Casing and shaft	UV resistant Nylon (glass fiber reinforced) with ABS shaft
Washer and Nut	Stainless Steel
Environmental	
Ingress Protection	IP68* – Device (requires SMA connection with shrink wrap tubing)
Impact Protection	IK08
Temperature	-10°C to 60°C

Radio Specification	Frequency	Return loss	V.S.W.R	Reflection Coefficient
Free air	700 MHz	-9.2 dB	2.065:1	0.348
	750 MHz	-18.2 dB	1.279:1	0.122
	778 MHz	-24.5 dB	1.127:1	0.059
	850 MHz	-8.4 dB	2.218:1	0.378
	935 MHz	-3.4 dB	5.155:1	0.675
Steel Sheet	700 MHz	-10.3 dB	1.880:1	0.306
	750 MHz	-21.4 dB	1.186:1	0.085
	762 MHz	-20.6 dB	1.207:1	0.094
	850 MHz	-6.6 dB	2.741:1	0.465
	935 MHz	-2.9 dB	6.027:1	0.715
Iron (55mm thick)	700 MHz	-22.0 dB	1.172:1	0.079
	750 MHz	-31.5 dB	1.055:1	0.027
	762 MHz	-9.8 dB	1.959:1	0.324
	850 MHz	-5.5 dB	3.268:1	0.531
	935 MHz	-3.2 dB	5.512:1	0.693

TAGGLE PART NUMBER

Variant	Product Code
1M cable	ANT-M2-SMA-0-0-1M-DISC
2M cable	ANT-M2-SMA-0-0-2M-DISC

INSTALLATION

Antenna must be mounted on a flat surface with spring washer and nut tightened for secure mounting. The SMA socket must be mated to the transmitter device with heat shrink tubing bonded to the coaxial cable.

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LICENSE AND CERTIFICATION

ACMA LIPD Class License

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* when SMA connectors are mated and with heat shrink tubing encasement.

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