



AWS8070

Common Name: Micro Streetworks, 9 metre Small Cell - Cabinet, Pole and Antenna.

PRODUCT INFORMATION

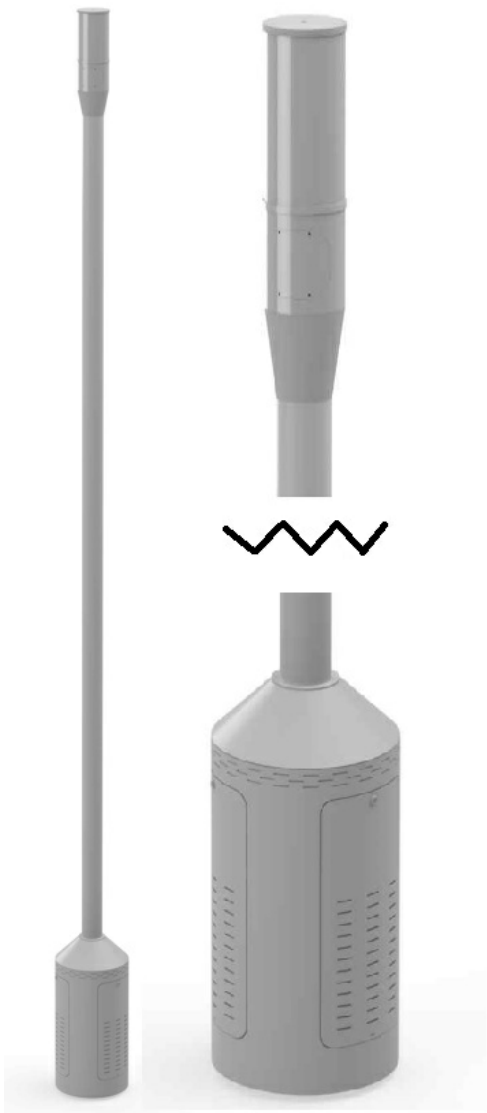
This is a cost-effective Small Cell infrastructure solution that includes a Small Cell Omni Antenna, 9m Pole and Steel Equipment Cabinet. The equipment cabinet at the base has a free air cooling system to maintain equipment temperatures.

APPLICATION

Alpha Wireless enables operators to rapidly deploy Small Cell infrastructure leveraging the existing power and transport infrastructure. The Alpha Wireless Street Micro Site combines novel materials and innovative design to reduce services and material site cost.

STANDARD & CERTIFICATIONS

Certification	BS EN ISO 9001:2015
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FEATURES

- Integrated Small Cell involving Cabinet, Pole and Antenna.
- 6.6" diameter pole for urban and suburban deployments.
- Cost-effective product ready for radios, power and fiber.
- Free Air Cooling system that draws outside air through the cabinet doors and vents the air through located above the doors. This maintains cabinet temperature.
- Pole is welded to top of cabinet which provides structural strength and avoids pole extending into the equipment cabinet. This increases the space available for telecom equipment in the cabinet.
- Quick installation process.

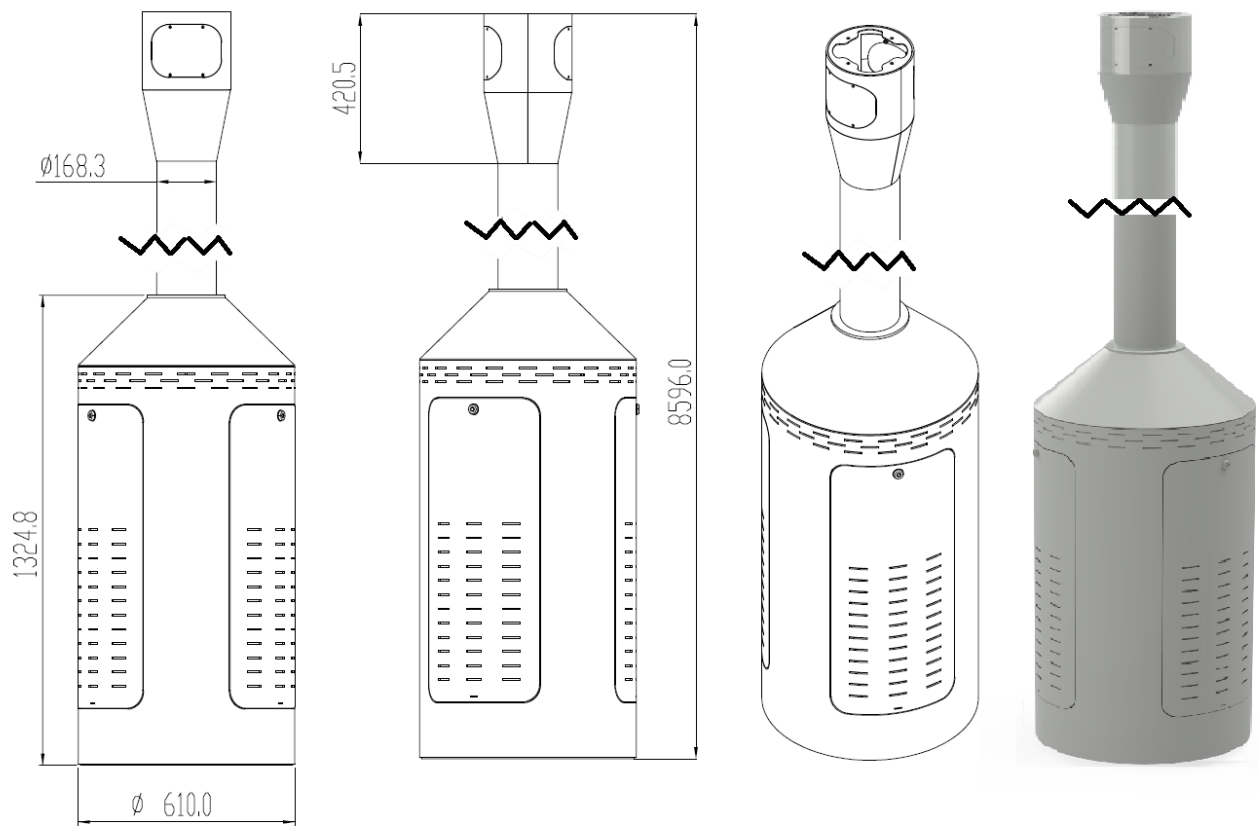
The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6.

TECHNICAL SPECIFICATION

Cabinet / Enclosure Information

Specification	Unit	Description
Dimensions	mm (in)	1350 (53.1) x 610 (24.0) (Length x Diameter)
Net Weight	kg (lb)	285 (628) Includes both Cabinet and 9 Metre Pole
Materials	-	Galvanised Steel
Finish	-	Powder Coated UV resistant
Equipment Access	-	Three round doors positioned at 0, 120 and 240 degrees
Access - Bottom of Cabinet	-	Fiber and Power routed from underground level.
Access - RF Jumper Cables	-	Feeder cables are routed out of pole inside cabinet.
Ingress Protection	IP Rating	44
Electrical Cutoff	-	Breaker inside cabinet that cuts mains to equipment.
Colour Standard	RAL	7035 (Grey) - Standard
Colour Options	-	Orderable in custom colours
Door Locking	-	Quarter turn locks at top of each door
Security	-	Secure anti-attack hinges
Cooling	-	Free air cooling assisted with temperature activated fans
Noise Emission, maximum	dBA	55

Cabinet Perspective

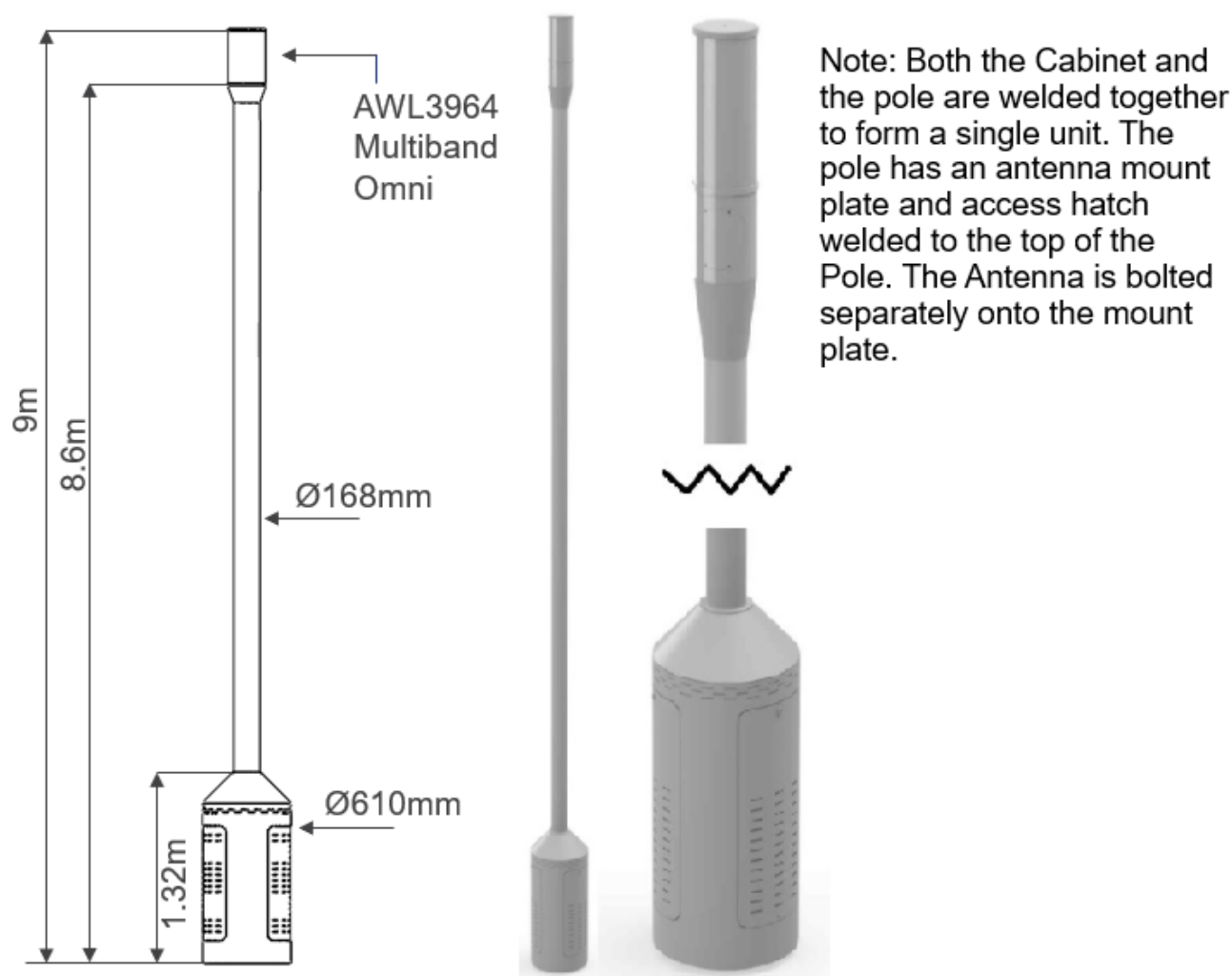


TECHNICAL SPECIFICATION

Pole Information

Specification	Unit	Description
Total Solution Height	mm (in)	8996 (354.2)
Pole Diameter	mm (in)	163.3 (6.62)
Term "grade"	-	Refers to ground level
Cabinet Height above grade	mm (in)	1325 (52.2)
Antenna Access Hatch	-	Below Antenna Connector Plate. Both sides.
Conduit Entry below grade	-	Via Floor of Cabinet
Materials	-	Painted Galvanised Steel
Colour	RAL	Grey
Colour Options	RAL	Black, Brown & Dark Green standard (custom available)
Foundation Options	-	Anchored Rebar Cage set in Concrete
Survival Wind Speed	km/h (mph)	241 (150)
Structural Analysis	-	As per TIA-222, AASHTO and local building codes
Access for Electrical Service	-	Via Cabinets Doors located at 0, 120 and 240 degrees.

Pole Perspective





TECHNICAL SPECIFICATION

Antenna Information

The AWL3964-T0-F is a 16 Port (8 mid-band + 8 high-band) Canister Antenna. A full Datasheet is available on request.

Summary of RF Specification

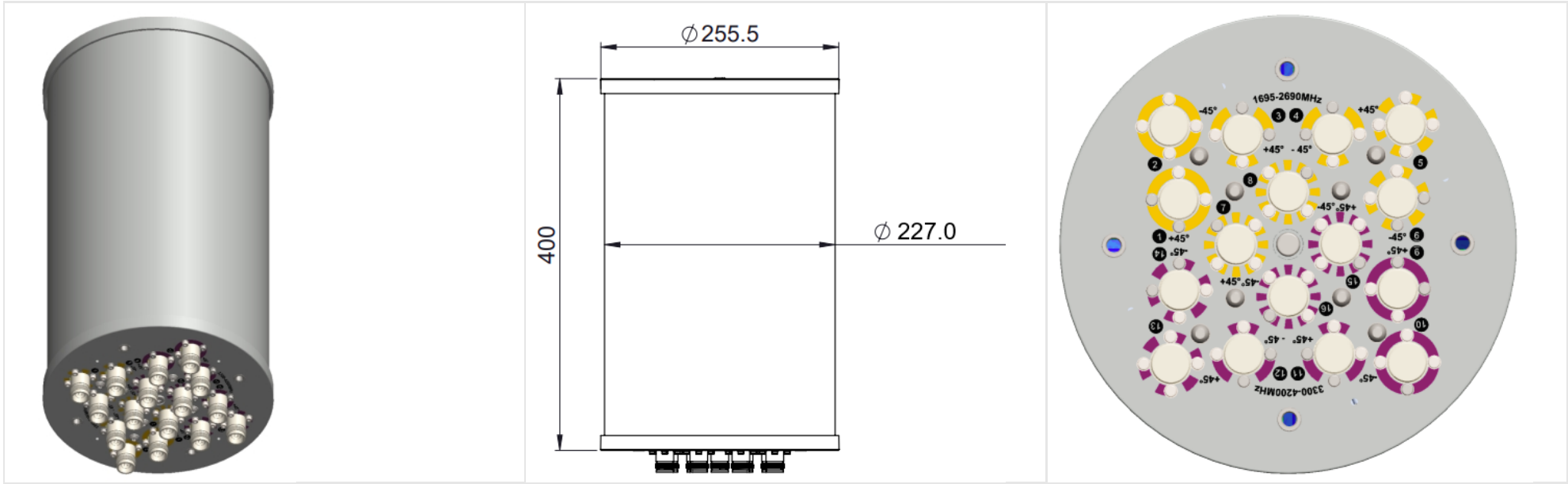
Frequency Range		MHz	1695-1995	1920-2170	2170-2500	2500-2690	3300-3600	3600-4200
Polarisation		Degree	+/- 45° Sant Linear					
Gain	BASTA	dBi	6.0±0.5	6.5±0.5	6.9±0.5	7.5±0.5	8.5±0.5	8.6±0.5
	Max	dBi	6.5	7.0	7.4	8.0	9.0	9.1
Azimuth Beamwidth		Degree	360°	360°	360°	360°	360°	360°
Elevation Beamwidth		Degree	40°	38°	32°	30°	32°	30°
Maximum Effective Power Per Port		W	50	50	50	50	50	50

Summary of Mechanical Specifications

Specification	Unit	Description
Dimensions LxWxD	mm (in)	400 (15.7) x 227 (8.9)
Net Weight (antenna)	kg (lbs)	4.3 (9.5)
Connector Type (female)	-	4.3-10
Connector Quantity	-	16 - 8 Ports Mid Band, 8 Ports High Band
Radome Colour	RAL	7035

Antenna Perspective

Array	Frequency	Ports
Y1	1695 – 2690 MHz	1 - 2
Y2		3 - 4
Y3		5 - 6
Y4		7 - 8
P1	3300 – 4200 MHz	9 - 10
P2		11 - 12
P3		13 - 14
P4		15 - 16



Ordering Info

Order Code	Description
AWS8070	Micro Streetworks 9 metre Small Cell, Cabinet Pole and Antenna.

The AWS8070 9 metre Small Cell, Cabinet, Pole and Antenna is a small cell product that can be customised to suit particular applications. Different customisations may include choice of colour, pole heights and antenna type.

Enquiries

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