RF ELEMENTS®

Array Sector 5-20
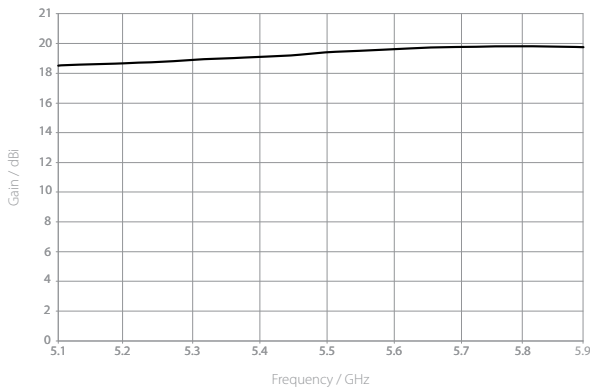
SECTOR ANTENNA WITH CARRIER CLASS PERFORMANCE

RF elements® Array Sector antennas provide exceptional RF performance, colocation capability, ease of installation, and cost efficiency.
The antennas feature our patented BackShield™, a frequency selective surface that attenuates the side lobes in the azimuth plane and back radiation, integrated directly in the antenna body.

Array Sector 5-20 operates in extremely wide frequency band, has balanced gain in both polarizations, and offers unmatched main lobe stability for superior coverage performance.
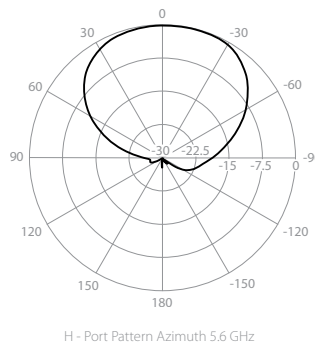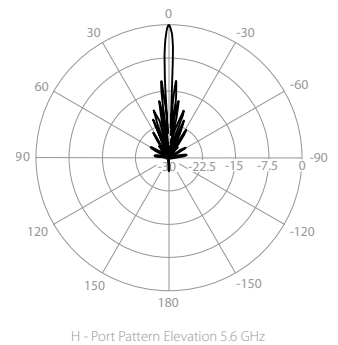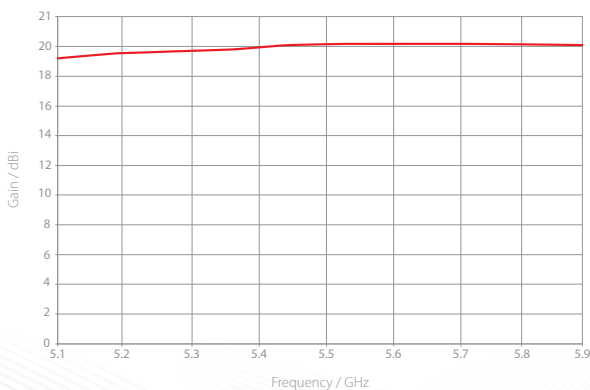
5 GHz 20 dBi

Gain H
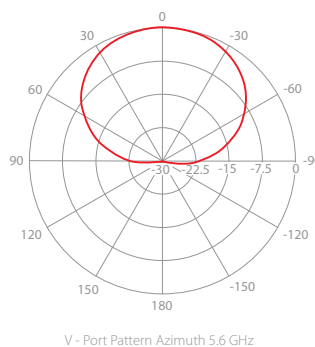

Azimuth Pattern H

H - Port Pattern Azimuth 5.6 GHz

Elevation Pattern H

H - Port Pattern Elevation 5.6 GHz

Gain V

Azimuth Pattern V

V - Port Pattern Azimuth 5.6 GHz

Elevation Pattern V

V - Port Pattern Elevation 5.6 GHz

www.rfelements.com

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RF ELEMENTS®
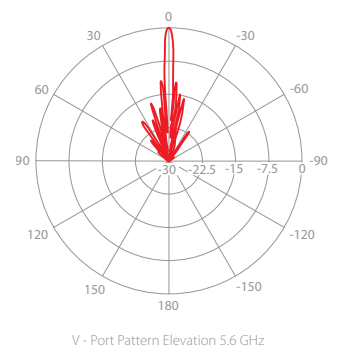
PHYSICAL

|	
Antenna Connection	2x RP-SMA on integrated semi-flex pigtails
Antenna Type	Patch Array Sector
Materials	UV Resistant ABS Plastic, Aluminium Alloy, Stainless Steel
Enviromental	IP55
Temperature	-35°C to +55°C (-31°F to +131°F)
Wind Survival	160 km/hour
Wind Loading	160 N at 160 km/hour
Electrical Downtilt	0°
Pole Mounting Diameter	40-80 mm (recommend as close to 80 mm as possible)
Weight	3.5 kg / 7.7 lbs – single unit 3.8 kg / 8.3 lbs – single unit incl. package
Single Unit	Retail Box: 834 x 167 x 130 mm / 32.8 x 6.5 x 5.1 inch

PERFORMANCE

Frequency Range	5150 - 5850 MHz
Gain	20 dBi
Polarization	Dual Linear H + V
Azimuth Beam Width -3 dB	H 80° / V 71°
Elevation Beam Width -3 dB	H 3.5° / V 3.5°
Azimuth Beam Width -6 dB	H 100° / V 100°
Elevation Beam Width -6 dB	H 4.5° / V 4.5°
Front-to-Back Ratio (Min)	30 dB
Beam Efficiency*	69 %
Cross Pol Isolation	H 27 dB / V 27 dB
Impedance	50 Ohm
VSWR Max	1.7
VSWR Typical	1.4
Isolation Between Ports	30 dB

COMPATIBLE WIRELESS PLATFORMS

RF elements®	StationBox® S, StationBox® S CARRIER CLASS, RockShield™
Cambium Networks™	ePMP™ 1000AP and CSM*¹, ePMP™ 2000AP*², ePMP™ 3000L AP*³
MikroTik™	BaseBox*⁴, NetBox*⁴, NetMetal*⁴
Ubiquiti Networks™	Rocket™ M5, Rocket™ M5 Titanium, Rocket™ 5ac, Rocket™ 5ac Prism, Rocket™ 5ac Prism Gen2, airFiber® 5X, airFiber® 5X-HD, LTU™ Rocket
Mimosa® by Airspan	A5x
TP-Link	Pharos WBS510

PRODUCT DIMENSIONS
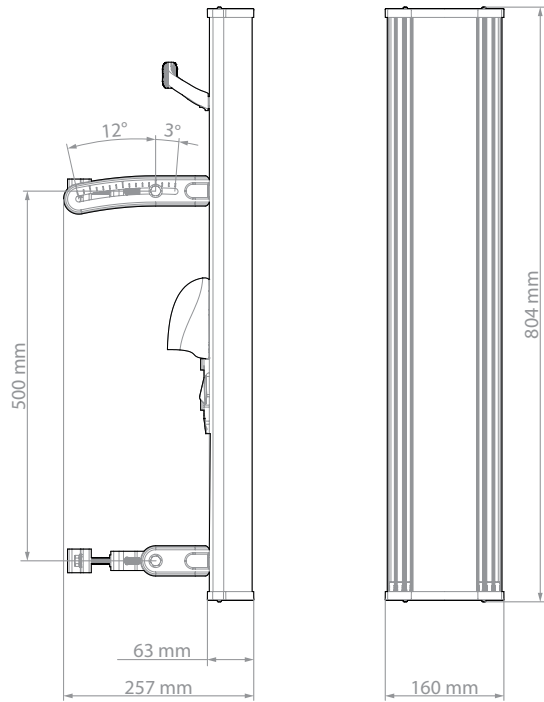
*main beam defined up to first null
*¹with EasyBracket™ for ePMP™
*²with EB_EPMP2
*³with EB_ePMP3kL
*⁴with EasyBracket™ 912

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