



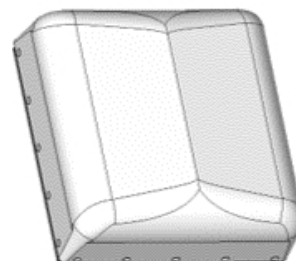
# SX04FRO165-01

NWAV™ X-Pol Antenna

4-port 1 ft 65° panel antenna 617-894, 1695-2690, 3400-4200 MHz:

2 ports 617-3980 MHz and 2 ports 3400-4200 MHz

- X-Pol, DAS, and Small Cell multi-port antenna
- Suitable for pole or building mount
- 4x4 MIMO for 3400-3980 MHz
- 2x2 MIMO for 617-3980 MHz
- Fast Roll Off pattern performance
- Cost-effective solution for neutral host locations



Electrical specification (min/max)	Ports 1, 2						
Frequency bands, MHz	617-798	824-894	1695-1880	1850-1990	1920-2180	2300-2400	2496-2690
Polarization	± 45°			± 45°			
Average gain, dBi	8.2	7.0	11.7	12.0	12.8	13.0	13.6
Horizontal beamwidth (HBW), degrees <sup>1</sup>	77.3°	80.0°	62.0°	65.0°	66.0°	68.0°	57.0°
Vertical beamwidth (VBW), degrees <sup>1</sup>	73.0°	82.5°	28.0°	26.2°	24.2°	22.0°	20.7°
Fixed electrical downtilt (EDT), degrees	0°						
Cross-polar isolation, port-to-port, dB <sup>1</sup>	25			25			
Max VSWR / return loss, dB	1.5:1 / -14.0			1.5:1 / -14.0			
Max PIM (3rd order, 2x20W) dBc	-153			-153			
Maximum input power port, watts	250			125			

Electrical specification (min/max)	Ports 1, 2			Ports 3, 4			
Frequency bands, MHz	3400-3550	3550-3700	3700-3980	3400 - 3550	3550-3700	3700-3980	3400-4200
Polarization	± 45°			± 45°			
Average gain, dBi	14.3	14.5	14.7	11	11.2	11.4	11.6
Horizontal beamwidth (HBW), degrees <sup>1</sup>	70	68	66	74	72	70	68
Vertical beamwidth (VBW), degrees <sup>1</sup>	18	16	15	52	50	48	46
Fixed electrical downtilt (EDT), degrees	0°			0°			
Cross-polar isolation, port-to-port, dB <sup>1</sup>	25			25			
Max VSWR / return loss, dB	1.5:1 / -14.0			1.5:1 / -14.0			
Max PIM (3rd order, 2x20W) dBc	-145			-145			
Maximum input power, watts	50			50			

<sup>1</sup> Typical value over frequency.



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Mechanical specifications	
Dimensions height/width/depth, inches (mm)	15.0/ 14.6/ 6.4 (381/ 370.84/ 162.56)
No. of RF input ports, connector type, and location	4 x 4.3-10 female, back
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	9.5 (4.3)
Weight with supplied bracket, lb (kg)	14.7 (6.7)
Shipping weight, lbs. (kg)	21.6 (9.8)
Supplied bracket kit	91900324 (included)
Mechanical down-tilt range	+/- 25° lateral (azimuth adjustment) and +/- 50° vertical (up/down tilt)
Rated wind survival speed, mph (km/h)	120 (193) with 91900324 bracket kit
Frontal wind loading @ 150 km/h, lbf (N)	9.5 (42.291)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	0.19
Installation instructions	<a href="#">DX-*/SX-*/IX-* Antenna Mounting Instructions and Kits 81900511</a>
Weep hole drilling instructions	<a href="#">DX-*/SX-*/IX-* Antenna Weep Hole Modification Guide</a>

Front view	Back view	Side view
Connector View		

Array topology		Notes								
<table border="1"> <thead> <tr> <th>Array ID</th> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>R1/Y1/P1</td> <td>617-894/1695-2690/3400-3980</td> <td>1-2    1-2    1-2</td> </tr> <tr> <td>P2</td> <td>3400-4200</td> <td>3-4</td> </tr> </tbody> </table>	Array ID	Band	RF port	R1/Y1/P1	617-894/1695-2690/3400-3980	1-2    1-2    1-2	P2	3400-4200	3-4	<p>Refer to JMA weep hole modification guide at <a href="http://jmawireless.com">jmawireless.com</a> for mandatory drilling instructions.</p> <p>The SX antennas can be painted in accordance with the JMA painting guidelines at <a href="http://jmawireless.com">jmawireless.com</a></p>
Array ID	Band	RF port								
R1/Y1/P1	617-894/1695-2690/3400-3980	1-2    1-2    1-2								
P2	3400-4200	3-4								

Ordering information	
Antenna model	Description
SX04FRO165-01	1F X-Pol 4-port panel 65°, 4.3-10
919055	Optional inverted mounting kit for 4.0-10.0 in. OD pole
91900313	Optional bracket kit for extended horizontal and vertical tilt ranges