

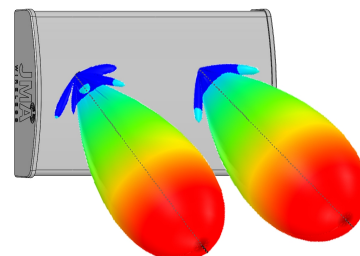
SX04FRO220-01

NWAV™ X-Pol Antenna

4-port 1 ft 23° panel antenna 1695-2690, 3400-4200 MHz:

2 ports 1695-2700 MHz and 2 ports 3400-4200 MHz

- Ideal product for high capacity, high throughput venue applications
- Covers 1695-4200 MHz for high bandwidth use in a single antenna
- Enables increased sectorization, with enhanced SINR performance
- High gain with narrow 23 degree horizontal and vertical beamwidths
- Slimline form factor for improved aesthetics
- Advanced array technology delivering extremely low side lobes



Electrical specification (min/max)	Ports 1, 2				
Frequency bands, MHz	1695-1880	1850-1990	1920-2180	2300-2400	2496-2690
Polarization	± 45°				
Average gain, dBi	17.2	17.4	18.4	18.8	19.2
Horizontal beamwidth (HBW), degrees ¹	24.5	23.5	22.3	21.5	19.0
Vertical beamwidth (VBW), degrees ¹	24.5	23.5	22.3	21.5	19.0
Fixed electrical downtilt (EDT), degrees	0°				
Cross-polar isolation, port-to-port, dB ¹	25				
Max VSWR / return loss, dB	1.5:1 / -14.0				
Max PIM (3rd order, 2x20W) dBc	-153				
Maximum input power port, watts	150				

Electrical specification (min/max)	Ports 3, 4		
Frequency bands, MHz	3400-3550	3550-3700	3700-4200
Polarization	± 45°	± 45°	± 45°
Average gain, dBi	18.6	18.8	19.6
Horizontal beamwidth (HBW), degrees ¹	21.5	20.0	18.5
Vertical beamwidth (VBW), degrees ¹	21.5	20.0	18.5
Fixed electrical downtilt (EDT), degrees	0		
Cross-polar isolation, port-to-port, dB ¹	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0	1.5:1 / -14.0	1.5:1 / -14.0
Max PIM (3rd order, 2x20W) dBc	-145		
Maximum input power, watts	75		

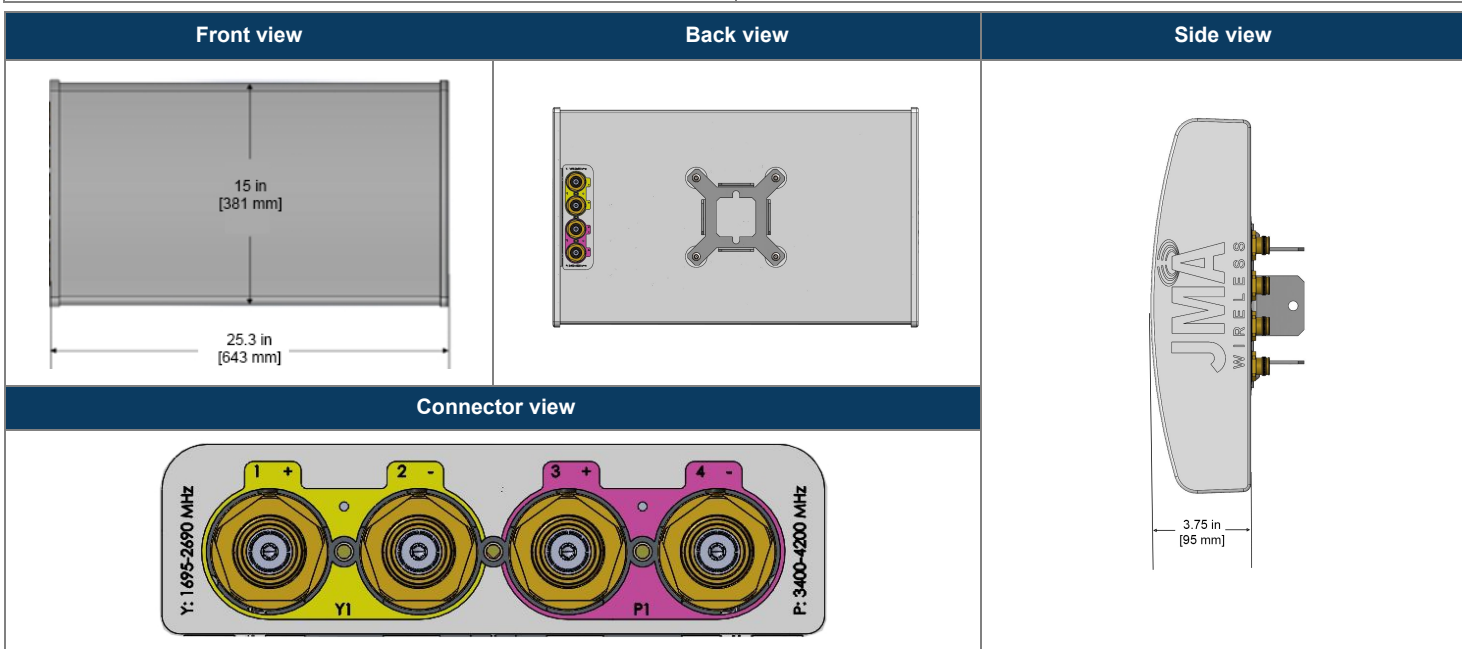
¹ Typical value over frequency.



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Mechanical specifications	
Dimensions height/width/depth, inches (mm)	15/ 25.3/ 3.75 (642.6/ 381/ 95.3)
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)	12.3 (5.6)
Weight with supplied bracket, lb (kg)	17.4 (7.9)
Shipping weight, lbs. (kg)	23.3 (10.6)
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)	16.25 (72.29)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	0.33
Installation instructions	DX-*/SX-*/IX-* Antenna Mounting Instructions and Kits 81900511
Weep hole drilling instructions	DX-*/SX-*/IX-* Antenna Weep Hole Modification Guide



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

Ordering information	
Antenna model	Description
SX04FRO220-01	1F X-Pol 4-port panel 28°, 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