

Introducing the N5-X30kp Antenna

Mimosa's latest modular N5-X antenna providing the ultimate flexibility for PTP and PTMP extended frequency operation.

4.9–6.4 GHz

Key Features

- 2-Foot Parabolic Dish Antenna
- Optimized front to back and side lobes suppression exceeding ETSI 302 217 Class I, eliminating interference
- Heavy-duty bracket with fine elevation and azimuth adjustment



The Mimosa's X-Series of products are the industry's most versatile, modular, radio solutions with six gain options (8, 12, 16, 20, 25, or 30 dBi). The ultra-rugged solution provides extended frequency operation from 4.9–6.4 GHz, with best-in-class noise immunity.

Mimosa X-Series Radios for PTP and PTMP



B5x



C5x



C6x

Features

- Twist-on antenna for Mimosa C5x, C6x and B5x PTP
- 2-Foot parabolic antenna - 2 pack
- Collapsible style dish for easy transport
- All aluminum dish material
- Dual linear polarization (V/H or +/-45 deg.)
- 4900 to 6400 MHz, 31 dBi Gain

Applications

- Long distance backhaul
- Point to point data links
- 4.9/5.1/5.3/5.4/5.8/6 GHz ISM and UNII band
- Wi-Fi 2.4 and Wi-Fi 5
- MIMO capability available
- 4.9 GHz public safety
- Licensed frequencies up to 6.4 GHz

Description

The N5-X30kp is a versatile 2-pack MIMO dish antenna, operating in the 4.9-6.4 GHz frequency range. Designed for Mimosa X-Series products, it features twist-on adapters for radio heads, 30 dB port-to-port isolation, and a 35 dB front-to-back ratio. With collapsible design for easy transport and quick installation, this 2-foot dish antenna has 50 Ohms impedance, 50 Watts maximum input power, and operates between -40 to 70 °C. Constructed with an aluminum base, DC grounded for lightning protection, it has a 5-degree horizontal and vertical HPBW. The N5-X30kp supports vertical/horizontal or ±45 degree slant polarization, is reliable, rugged, and suitable for various applications, including enterprise, industrial, telecom operators, radio OEMs, backhaul engineers, and network deployment.

Configuration

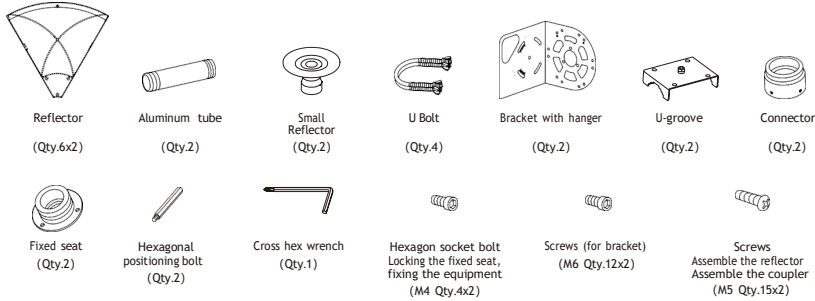
Design Application	Dish
Band Band Type	MIMO
Radiation Pattern	Multi
Polarization	Directional
Connector Type	H/V or 45 Deg. Slant
Lightning Protection	C5X, C6X, B5X DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,900		6,400	MHz
Impedance		50		Ohms
Front to Back Ratio	35			dB
Port to Port Isolation	30			dB
Horizontal (Azimuth) HPBW		5		Degrees
Vertical (Elevation) HPBW		5		Degrees
Input Power			50	Watts

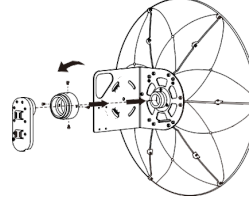
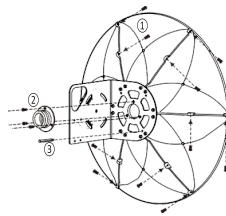
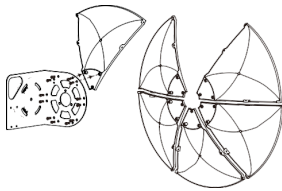
Installation steps

Before use this equipment, please read this guide for installing equipment quickly.



Bracket Installation

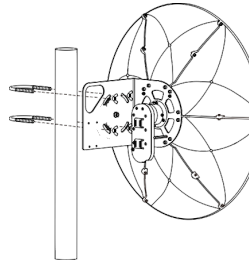
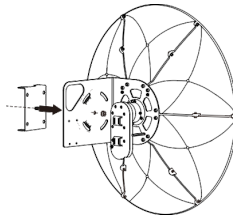
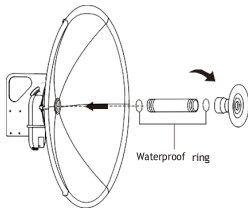
1. Assemble the 6 pieces of Reflector on the Bracket with hanger, and each Reflector is fixed with 2 M6 screws.
2. ① Use M5 screws to fix the Reflector, each Reflector is fixed with 2 M5 screws.
② Install the mounting bracket on the antenna and fix it with 3 M5 screws.
③ Attach the six-positioning post to the clamp.
3. Screw the device clockwise into the connector and the holder, and then fix the device with 4 M4 hexagon socket screws.



- ④ Put the waterproof ring on the aluminum tube connector and turn it clockwise into the coupling connector. Align the Small Reflectors with the center of the front of the aluminum tube and turn them clockwise.

- ⑥ Fix the U-groove to the Bracket with nuts by M8 wrench.

- ⑦ Remove the nut on the U-Bolt, select the appropriate position of the antenna to adjust the antenna twist, lock the nut to the U-Bolt, fix the antenna, and complete the installation. Note: The mounting assembly can accommodate a \varnothing 30 - 70mm pole.



Mimosa Networks, a wholly owned subsidiary of Radisys, is the global technology leader in wireless broadband solutions, enabling service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa Networks was acquired in 2023 by Radisys Corporation, a wholly owned subsidiary of Jio Platforms Limited.



Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.9 to 5.1	5.1 to 5.9	5.9 to 6.4			GHz
Gain	29	30	31			dBi
VSWR Max	2.5:1	2:01	2:01			

Mechanical Specifications

Base Material	Aluminum
Mounting Application	U-bolt
Size	
Length	23.622 in [600 mm]
Width	23.622 in [600 mm]
Height	13 in [330.2 mm]
Mounting Mast Diameter	1.1811 to 3.1496 in [30.00 to 80.00 mm]
Weight	14.33 lbs [6.5 kg]
Mechanical Specification Notes:	
Weight and dimensions are for a single antenna	

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

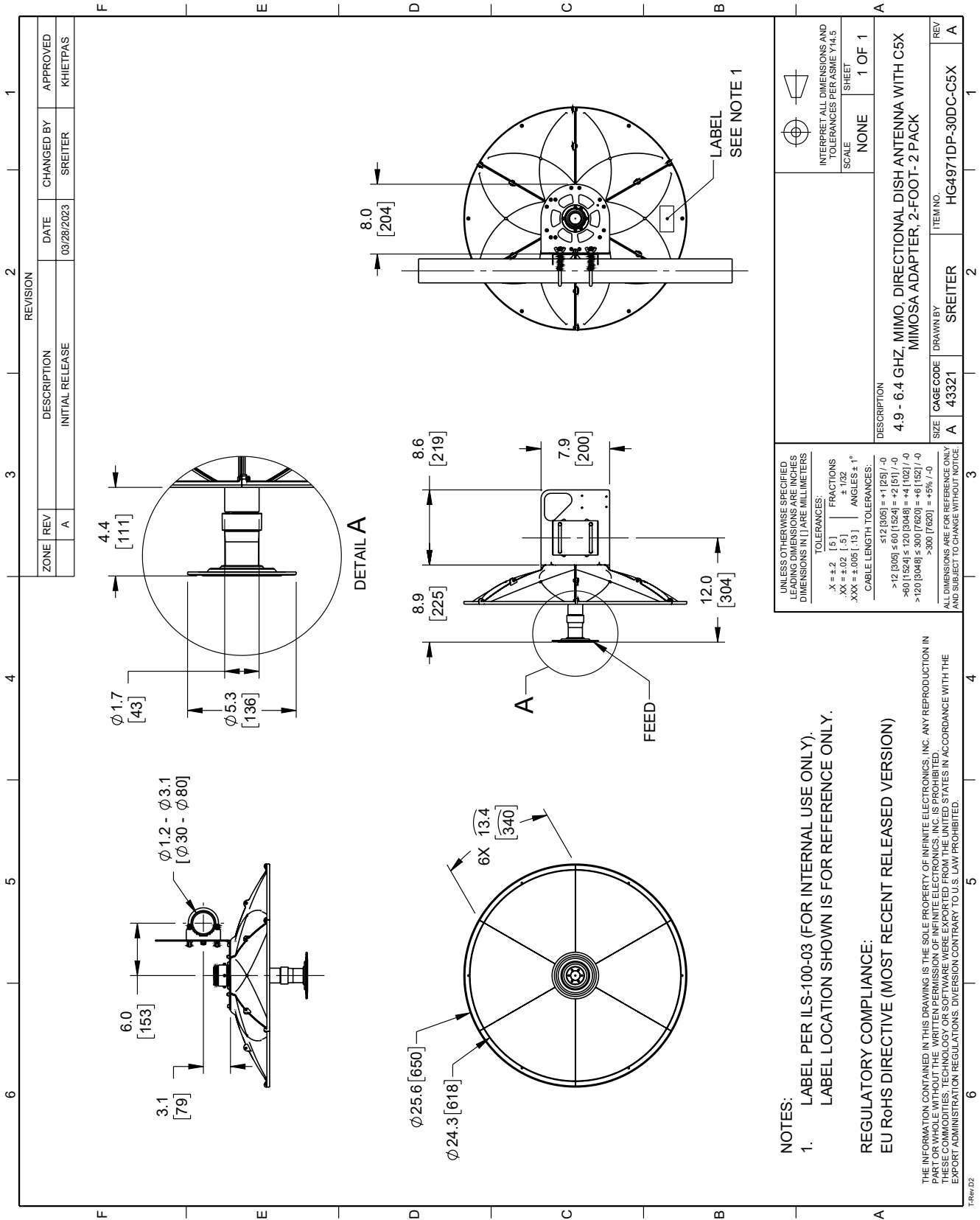
Plotted and Other Data

Notes:

4.9-6.4 GHz, 2-foot Dish Antenna with C5x, C6x, B5x Mimosa Adapter, 2 Pack from Mimosa that is available to ship out with your radios. Our portfolio includes coaxial cable assemblies, connectors, adapters and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Mimosa reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Mimosa does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Mimosa does not assume liability arising out of the use of any part or document.

CAD Drawing



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	03/28/2023	SREITER	KHIETPAS

REVISION	DESCRIPTION
1	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS.	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
TOLERANCES:	SCALE NONE
X = ±.2 [5]	SHEET 1 OF 1
XX = ±.02 [0.5]	
XXX = ±.005 [0.13]	
ANGLES ± 1°	
CABLE LENGTH TOLERANCES:	
<12 [305] = ±1 [25] / -0	
>12 [305] = ±0 [1324] = ±2 [51] / -0	
>60 [1524] = ±20 [508] = ±4 [102] / -0	
>120 [3048] = ±40 [1025] = ±6 [152] / -0	
>300 [7620] = ±9% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

DESCRIPTION	ITEM NO.
4.9 - 6.4 GHZ, MIMO, DIRECTIONAL DISH ANTENNA WITH C5X MIMOSA ADAPTER, 2-FOOT-2 PACK	HG4971DP-30DC-C5X
SIZE	DRAWN BY
A	SREITER
CAGE CODE	REV
43321	A

NOTES:
 1. LABEL PER ILS-100-03 (FOR INTERNAL USE ONLY). LABEL LOCATION SHOWN IS FOR REFERENCE ONLY.
 REGULATORY COMPLIANCE:
 EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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