

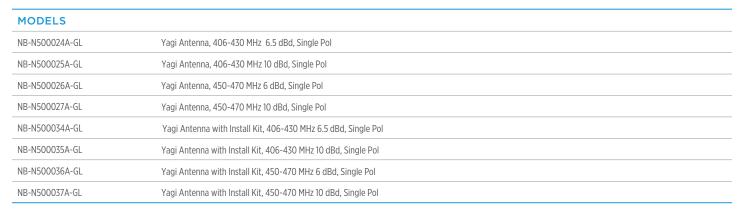
400 MHz Industrial Yagi Antennas

Industrial applications require deployment in harsh environments where equipment must survive and operate at top performance during many years of mission critical use.

Cambium's line of premium-grade industrial antennas is designed with the following key features and capabilities:

- Designed to withstand heavy ice, high wind, wide temperature swings and other harsh conditions.
- Manufactured using high strength aircraft-quality aluminum with all joints welded as well as the integral feed line welded for additional strength and improved electrical conductivity.
- Anodized surfaces for long life, improved aesthetics and corrosion resistance
- Mounting bracket included to support either Horizontal or Vertical polarization applications
- · Available in both stand-alone and with an optional complete turn-key installation kit
- · Integrated in Cambium's LINKPlanner software for network planning of capacity and availability









NR-N5000244-GI

SPECIFICATIONS

| PERFORMANCE | NB-N500024A-GL | NB-N500025A-GL | NB-N500026A-GL | NB-N500027A-GL |
|--|--|---|--|--------------------|
| Gain | 6.5 dBd | 10 dBd | 6.0 dBd | 10 dBd |
| Number of Elements | 3 | 7 | 3 | 7 |
| Polarization | Single (H or V) | Single (H or V) | Single (H or V) | Single (H or V) |
| Frequency Range | 403 to 430 MHz | 403 to 430 MHz | 450 to 470 MHz | 450 to 470 MHz |
| Azimuth Half Power Beamwidth | 104 degrees | 52 degrees | 104 degrees | 50 degrees |
| Elevation Half Power Beamwidth | 62 degrees | 46 degrees | 65 degrees | 45 degrees |
| Front to Back Ratio | 15 dB | 20 dB | 15 dB | 20 dB |
| Maximum Power | 250 W | 250 W | 250 W | 250 W |
| Nominal Impedance | 50 ohms | 50 ohms | 50 ohms | 50 ohms |
| PHYSICAL / MECHANIC | AL | | | |
| Dimensions | 18" x 13.9" x 3.2" | 44" x 14.4" x 3.2" | 18" x 12.9" x 3.2" | 42" x 11.8" x 3.2" |
| Weight | 2 lbs. (0.9 kg) | 4 lbs. (1.8 kg) | 2 lbs. (0.9 kg) | 3 lbs. (1.4 kg) |
| Cross-sectional area | 0.19 sq ft. | 0.48 sq ft. | 0.18 sq ft. | 0.46 sq ft. |
| Lateral Thrust @ 150 mph | 6.23 lbs. | 18.41 lbs. | 5.85 lbs. | 16.72 lbs. |
| Lateral Thrust Bending Moment @ 150 mph | 4.19 lb-ft | 29.4 lb-ft. | 3.87 lb-ft. | 25.4 lb-ft. |
| Lateral Thrust @ 100 mph with 1/2" of ice | 19.44 lbs. | 53.62 lbs. | 18.23 lbs. | 48.49 lbs. |
| CONSTRUCTION | | | | |
| Materials | Anodized Aircraft quality 6061-T6 aluminum | | | |
| Attached Cable Lead | Antenna Model: N-type Female Connector on 2 foot (0.6m) lead Antenna with Installation Kit Model: N-type Female Connector on 25 foot lead (8.3m) | | | |
| Cable | RG213 | | | |
| Mounting Bracket | Clamp bracket for 1/2" to 7/8" diameter yagis. Mounts to masts 1.25" to 2.4" Outside Diameter | | | |
| ENVIRONMENTAL | | | | |
| Wind Survival | > 150 mph (241 km/hour) | | | |
| Temperature Range | -40F to +185F (-40C to +85C) | | | |
| INSTALLATION KIT CON | NTENTS | | | |
| | grounding kit weatherproofing kit (includes bu cable ties (qty. 5) RF bulk-head mount surge suppr short 2' N-type Male to TNC Male | therproofed and attached to the antennature tyl rubber tape, 3/4" electrical tape, 2" | lectrical tape) ide cabinet over to the radio | |

^{*} gains are given in dBd relative to the radiating element. This typically equates to a dBi value of ~ 1dB greater than the provided dBd value in real-world link budgets.