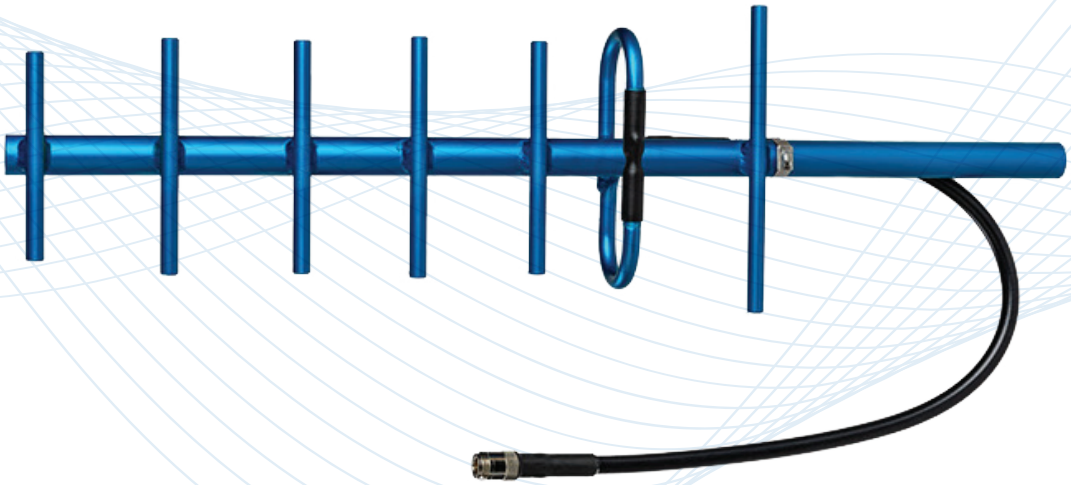
DATASHEET

ISM / LORA / LPWAN ANTENNAS

Marathon Yagi Antennas

ISM/LoRa/LPWAN Antennas - Yagi

BMYD Series



Description

Premium quality, superior strength, 700/800/900 MHz series antennas for Industrial IoT applications.

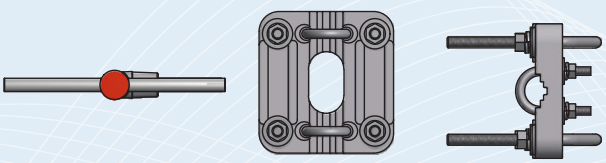
Technologies

- ISM
- LoRa

Features

- Optimum strength – Elements and boom are made from aircraft quality 6061-T6 aluminum
- Durable – Antenna is anodized for corrosion resistance and aesthetic appearance
- Ease of connection – Supplied with a 2' pigtail (RG213) and N Female connector
- Withstands extreme weather conditions – Temperature range -40°C to +85°C; wind survival rating ≥ 200 mph

PCTEL an Amphenol company



BWC1001 Mount

Marathon Yagi Antennas

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PCTEL's BMYD Yagi series is engineered to meet the requirements of a high gain, broadband, premium quality antenna. The antenna is manufactured using high strength 6061-T6 aluminum, and all elements are welded to the boom. The dipole design has an integral feed line welded to the boom for extra strength and electrical conductivity, and to eliminate misalignment or fastener problems.

Features

- Frequency range: 700/800/900 MHz
- Elements and boom are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- Antenna is anodized for aesthetic appearance and corrosion resistance
- Antenna is supplied with a 2' pigtail (RG213) and N Female connector
- Temperature range -40°C to +85°C
- Wind survival rating ≥ 200 mph

Certifications

RoHS COMPLIANT

SPECIFICATIONS

Marathon Yagi Antennas

ISM/LoRa/LPWAN Antennas - Yagi

Standard Configurations

Model	Cables	Connector	Elements	Mount
BMYD745K	2 ft RG213	N Female	7	BWC1001 Clamp bracket for 1/2"-7/8" diameter yagis. Mounts to masts 1.25"-2.4" OD (included with all models)
BMYD806G	2 ft RG213	N Female	3	
BMYD806K	2 ft RG213	N Female	7	
BMYD806M	2 ft RG213	N Female	11	
BMYD806O	2 ft RG213	N Female	18	
BMYD890G	2 ft RG213	N Female	3	
BMYD890K	2 ft RG213	N Female	7	
BMYD890M	2 ft RG213	N Female	11	
BMYD890O	2 ft RG213	N Female	18	

Electrical Specifications - RF Antenna

Model	Frequency Range	Gain	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth	Front to Back Ratio	Maximum Power	Nominal Impedance
BMYD745K	745-806 MHz	10 dBd	56°	47°	20 dB	200 watts	50 ohms
BMYD806G	806-896 MHz	6.5 dBd	100°	62°	15 dB	200 watts	50 ohms
BMYD806K	806-896 MHz	10 dBd	60°	46°	20 dB	200 watts	50 ohms
BMYD806M	806-896 MHz	12 dBd	44°	38°	20 dB	200 watts	50 ohms
BMYD806O	806-896 MHz	14 dBd	36°	30°	25 dB	200 watts	50 ohms
BMYD890G	890-960 MHz	6.5 dBd	100°	62°	15 dB	200 watts	50 ohms
BMYD890K	890-960 MHz	10 dBd	56°	46°	20 dB	200 watts	50 ohms
BMYD890M	890-960 MHz	12 dBd	40°	34°	20 dB	200 watts	50 ohms
BMYD890O	890-960 MHz	14 dBd	32°	26°	25 dB	200 watts	50 ohms

Mechanical and Envornmental Specifications

Model	Dimensions*	Weight	Cross Sectional Area	Lateral Thrust @ 150 mph	Lateral Thrust Bending Moment @ 150 mph	Lateral thrust @ 100 mph with 1/2" ice
BMYD745K	26" x 7.5"	2.2 lbs (1.0 kg)	0.28 sq ft	19.7 lbs	18.3 lb-ft	28.1 lb
BMYD806G	12" x 6.5"	1.5 lbs (0.7 kg)	0.106 sq ft	6.24 lbs	2.16 lb-ft	8.84 lb
BMYD806K	24" x 6.5"	2 lbs (0.9 kg)	0.223 sq ft	14.4 lbs	12.1 lb-ft	19.4 lb
BMYD806M	36" x 7.2"	2.1 lbs (.95 kg)	0.347 sq ft	14.4 lbs	12.1 lb-ft	19.4 lb
BMYD806O	60" x 7"	3.3 lbs (1.5 kg)	0.618 sq ft	51.5 lbs	108 lb-ft	63.7 lb
BMYD890G	12" x 6.75"	1.4 lbs (.64 kg)	0.103 sq ft	6.2 lbs	2.0 lb-ft	7.2 lb
BMYD890K	23.9" x 6.75"	2.1 lbs (.95 kg)	0.219 sq ft	16.8 lbs	14.1 lb-ft	24.3 lb
BMYD890M	36" x 6.75"	2.5 lbs (1.1 kg)	0.332 sq ft	26.7 lbs	35.5 lb-ft	35.5 lb
BMYD890O	63" x 6.6"	3.6 lbs (1.6 kg)	0.624 sq ft	45.5 lbs	119 lb-ft	50.6 lb

** Dimension do not include antenna cable.*

CONTACT US

For more information about this product contact your sales representative or visit

> pctel.com/antenna-products

Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built antenna systems, and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.

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