

ISM Band Yagis

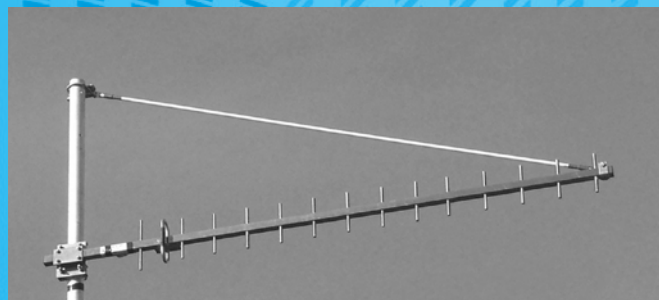
900MHz - 2.4GHz Directional antennas

TRIO Datacom can provide you with the correct ISM band Yagi antenna to suit your application. Directional antennas are designed in such a way that the pattern shape is focused so that greater coverage can be obtained in a particular direction. Put simply, signals can travel greater distances.

Changing the design and mechanical properties of directional antennas effectively alters how far the signal travels in any given direction. Thus the application of a directional antenna involves a little more thought as to the radiation pattern or E(elevation) and H(Horizontal) plane beam widths. Remember, when deciding on directional antennas the higher the gain, the more 'pencil-like' the radiation pattern. This is an important consideration when aligning two sites over long distances.

The alodined protective finish provides a conductive surface to ensure effective earthing of the antenna when mounting.

Yagi antennas rest at ground potential to provide excellent lightning protection and reduced precipitation static noise.



13 Element with 13 dBd gain



Enclosed yagi with 15 dBd gain



9 Element with 9 dBd gain

Specifications

Specifications Electrical

| Part No | Gain (dBd) | Avail. Frequency (MHz) | Bandwidth (MHz) | VSWR | Impedance (Ohms) | Typ Vertical Beamwidth (deg) | Typ Horizontal Beamwidth (deg) | Typ Front to Back Ratio (dB) |
|--------------|------------|------------------------|-----------------|--------|------------------|------------------------------|--------------------------------|------------------------------|
| ANTY-09-915A | 9 | 902-928 | >30MHz | <1.5:1 | 50 | 49 | 61 | 20 |
| ANTY-09-915S | 9 | 902-928 | >30MHz | <1.5:1 | 50 | 50 | 62 | 20 |
| ANTY-13-915A | 13 | 902-928 | >30MHz | <1.5:1 | 50 | 28 | 30 | 15 |
| ANTY-13-915S | 13 | 902-928 | >30MHz | <1.5:1 | 50 | 28 | 30 | 15 |
| ANTY-13-2G4 | 13 | 2400-2450 | 50MHz | <1.5:1 | 50 | 29 | 26 | 30 |
| ANTG-22-2G4 | 22 | 2400-2500 | 100MHz | <1.5:1 | 50 | 8 | N/A | 30 |

Specifications Mechanical

| Part No | Construction | Length (m) | Weight (kg) | Wind Load (Thrust) @ 160km/h N | Wind Gust Rating (km/h) | Termination | Notes |
|--------------|--------------|------------|-------------|--------------------------------|-------------------------|-------------------------------|---|
| ANTY-09-915A | Aluminium | 0.6 | 0.4 | 28 | >240 | N female on short cable tail. | includes 1 x UNV bracket |
| ANTY-09-915S | Stainless | 0.6 | 0.7 | 28 | >240 | N female on short cable tail. | includes 1 x UNV2 bracket |
| ANTY-13-915A | Aluminium | 1.8 | 1 | 95 | NA | N female on short cable tail. | includes 1 x A48 bracket. Struts recommended. |
| ANTY-13-915S | Stainless | 1.8 | 2.6 | 95 | NA | N female on short cable tail. | includes 1 x A48 bracket. Struts recommended. |
| ANTY-13-2G4 | Radome | 0.5 | 2 | NA | NA | N male on short cable tail. | includes mounting clamp and N-F/F adapter |
| ANTG-22-2G4 | AL/SS | # | 2 | NA | NA | N male on short cable tail. | includes mounting clamp and N-F/F adapter |

HEAD OFFICE (AUSTRALIA)
 41 Aster Avenue, Carrum Downs, Victoria 3201,
 Tel: +61 3 8773 0100 Fax: +61 3 9775 0606
 Sales: sales@triodatacom.com
 Support: support@triodatacom.com



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