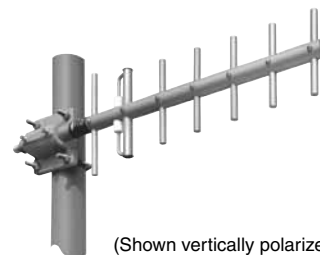


The Kathrein-Scala TY series are rugged broadband yagi antennas fabricated of 6061/T6 aluminum rod and seamless drawn pipe, anodized for maximum reliability and corrosion resistance. The hardware and fastenings are stainless steel. The internal balun, coax feed and connector are sealed in a foam potting system to prevent moisture penetration and assure long service life in severe environmental conditions. The heavy aluminum mounting casting allows installation for V or H polarization.

- The TY-840 is specifically designed for trunking and other fixed-station applications in the 806–869 MHz band.

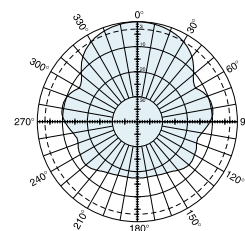


(Shown vertically polarized)

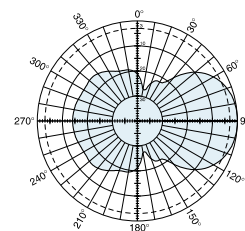
Specifications:

Frequency range	806–869 MHz
Gain	12 dBi
Impedance	50 ohms
VSWR	< 1.5:1 maximum (1.35:1 typical)
Polarization	Horizontal or vertical
Front-to-back ratio	>18 dB
Maximum input power	100 watts (at 50°C)
H-plane beamwidth	59 degrees (half-power)
E-plane beamwidth	48 degrees (half-power)
Connector	N female
Weight	2.9 lb (1.3 kg)
Dimensions	24.5 x 8.375 inches (622 x 213 mm)
Wind load	at 93 mph (150kph)
Front/Side	3 lbf / 4 lbf (11 N) / (17 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	28 x 10 x 4.5 inches (710 x 254 x 114 mm)
Shipping weight	5.0 lb (2.3 kg)
Mounting	For masts of 1.25 to 2.375 inch (32 to 60 mm) OD.

See reverse for order information.



H-plane
Horizontal pattern – V-polarization
Vertical pattern – H-polarization

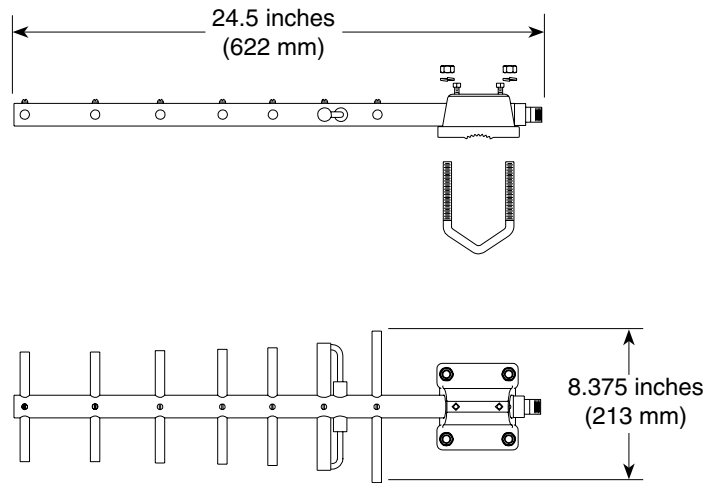


E-plane
Horizontal pattern – H-polarization
Vertical pattern – V-polarization

* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



10060-E



Order Information:

Model	Description
TY-840	Yagi antenna with N connector

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

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