

# BY900-XG

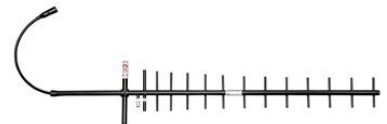
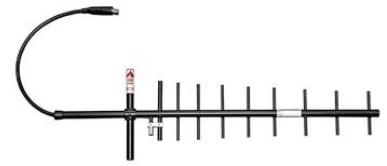
## LTE 900 MHz Yagi Antenna Series

BY900-XG is a family of LTE 900 MHz Yagi Antennas

- Low Loss and Wideband Gamma match.
- Radiating elements, supporting booms and adjoining metal castings are constructed in high quality aluminum to prevent corrosion.

### ELECTRICAL SPECIFICATIONS

|                      |  |
|----------------------|--|
| Antenna Type         | BY90-10G: 10-element Yagi Antenna<br>BY90-12G: 14-element Yagi Antenna<br>BY90-15G: 15-element Yagi Antenna          |
| Frequency            | 870 - 960 MHz  |
| Bandwidth            | 90 MHz   |
| Impedance            | 50 Ohm   |
| VSWR                 | <1.5:1   |
| Polarisation         | Linear (Vertical or Horizontal)  |
| Gain                 | BY90-10G: 10 dBd, 12.15 dBi<br>BY90-12G: 12 dBd, 14.15 dBi<br>BY90-15G: 15 dBd, 17.15 dBi                            |
| Half-Power Beamwidth | BY90-10G: E-Plane: 42°, H-Plane: 48°<br>BY90-12G: E-Plane: 32°, H-Plane: 34°<br>BY90-15G: E-Plane: 26°, H-Plane: 28° |
| Front-To-Back Ratio  | > 18 dB  |
| Max. Input Power     | 150 Watt   |

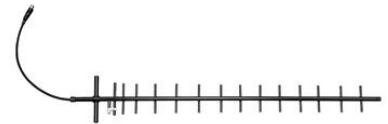


## Datasheet

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## MECHANICAL SPECIFICATIONS

|                     |  |
|---------------------|--|
| Color               | Black Grey (RAL7021)   |
| Dimensions          | BY90-10G: 850 x 240 mm<br>BY90-12G: 1250 x 240 mm<br>BY90-15G: 1400 x 210 mm |
| Weight              | BY90-10G: 1.5 kg<br>BY90-12G: 1.8 kg<br>BY90-15G: 2.3 kg                     |
| Mount Type          | Fixed Tube Bracket in Galvanized Iron (included)                             |
| Mounting Place      | On tube (Ø 20 - 50 mm, vertical or horizontal)                               |
| Survival Wind Speed | 55 m/s   |
| Materials           | Aluminum 6063-T5, PP and Brass   |
| Connector           | Type N-female  |
| Pigtail             | Approx. 0.5 m RG213/U  |
| Serial Number       | On product label   |



## ORDERING INFORMATION

|          |                             |
|----------|-----------------------------|
| BY90-10G | 10 dBd, 12.15 dBi<br>In Box |
| BY90-12G | 12 dBd, 14.15 dBi<br>In Box |
| BY90-15G | 15 dBd, 17.15 dBi<br>In Box |