

## ALLNET Antenna 868MHz 10dbi Antenna (N-Fem.) YAGI ANT-868-10

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### EAN CODE



### ALLNET Antenna 868MHz 10dbi Antenna (N-Female) YAGI ANT-868-10dbi-Yagi LoRA HELIUM IoT

#### Highlights:

- 860~896MHz Yagi Antenna 6 Elements
- Gain: 10dbi (See table for more details)
- Coverage angle: 73°/55° (see table for more details)
- Impedance: 50 Ohm
- VSWR: <=1.4
- Connector: N-type female (suitable connection cables can be found in the accessories)
- Dimension: Length = 582x202x55mm
- Windspeed: 200km/h
- Temperature: -45°C ~ +75°C
- Mounting: Mast mounting
- Package contents: Antenna and mounting accessories
- Ideal for LoRA / Helium Network / Helium Miner / IoT terminals / 868MHz systems etc.

Yagi antennas belong to the group of longitudinal radiators and use radiation-excited elements. Yagi antennas consist of a group of active and passive (parasitic) elements which produce a common strongly pronounced directional pattern through mutual co-coupling. They often consist of only one fed element with a number of parasitic radiation-fed elements.

**Heavy Duty Construction. High gain for excellent point to point. Narrow beamwidth and High F/B ratio minimize other system interference**

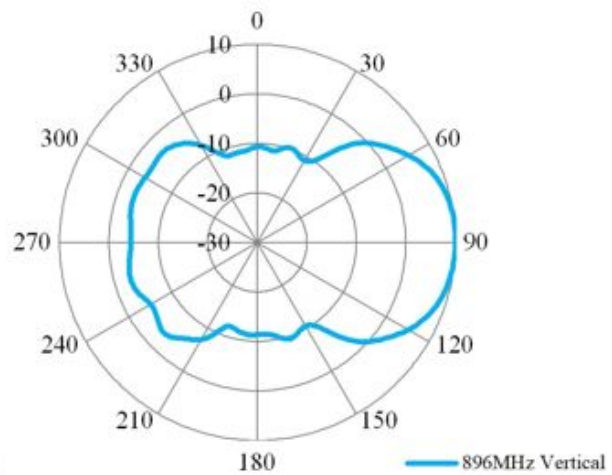
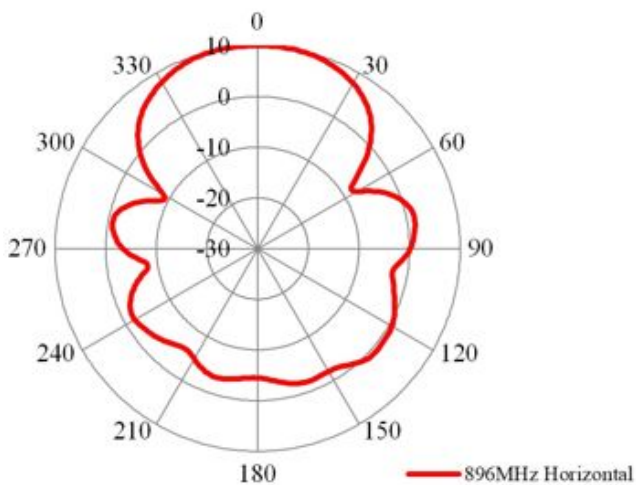
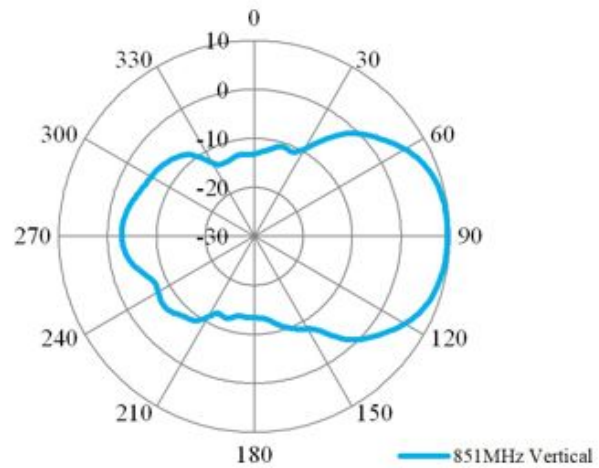
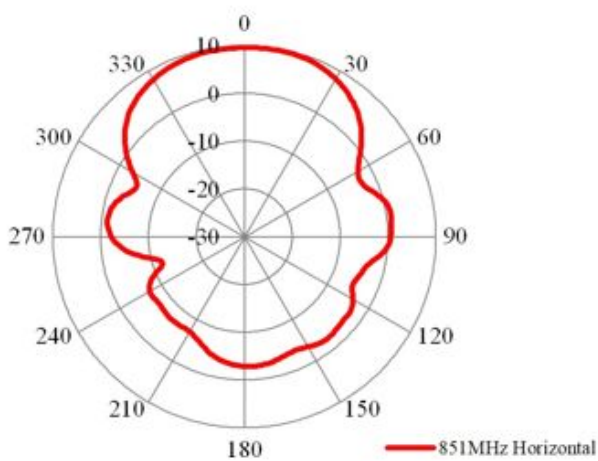
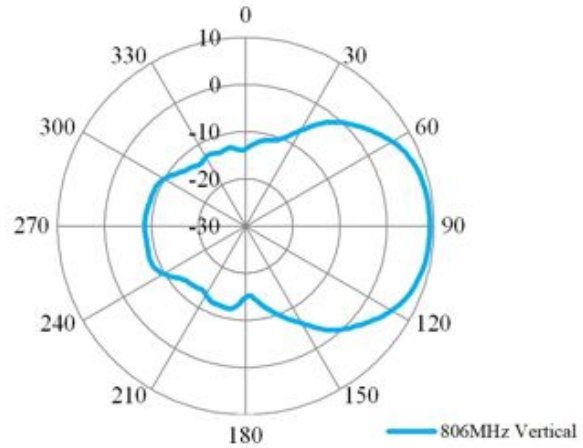
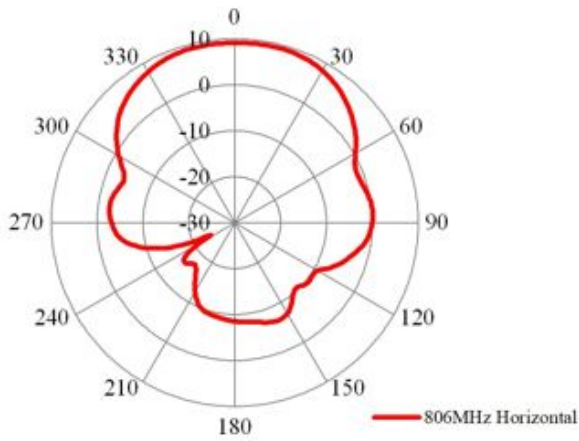


## Technical Details:

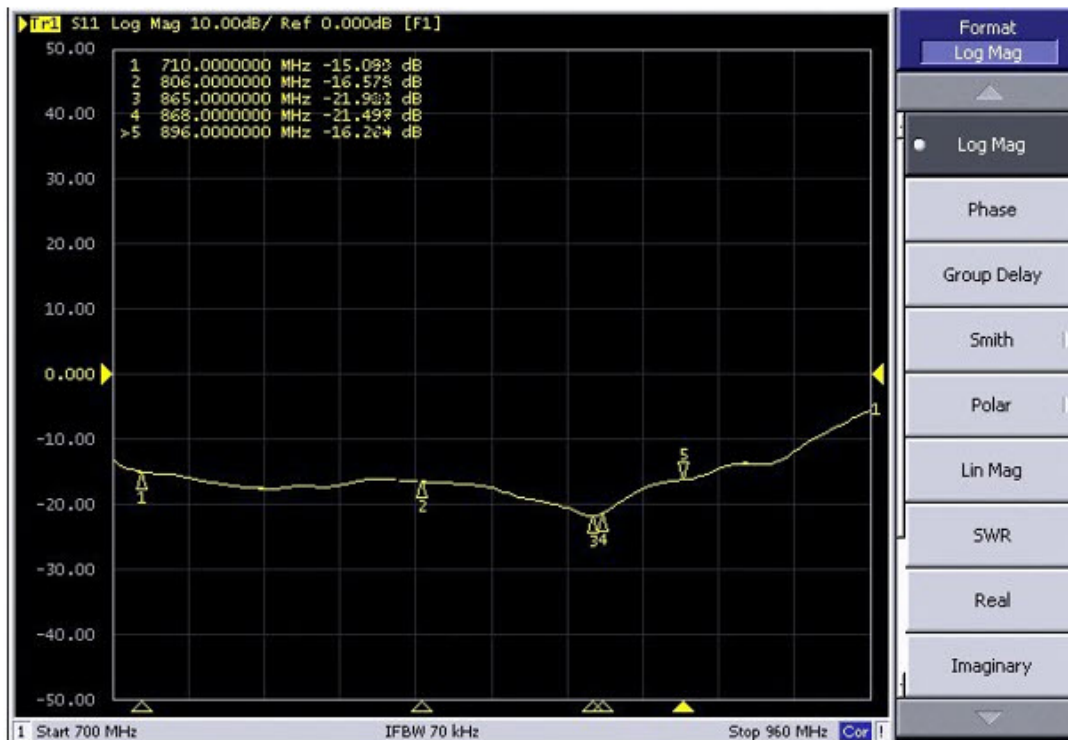
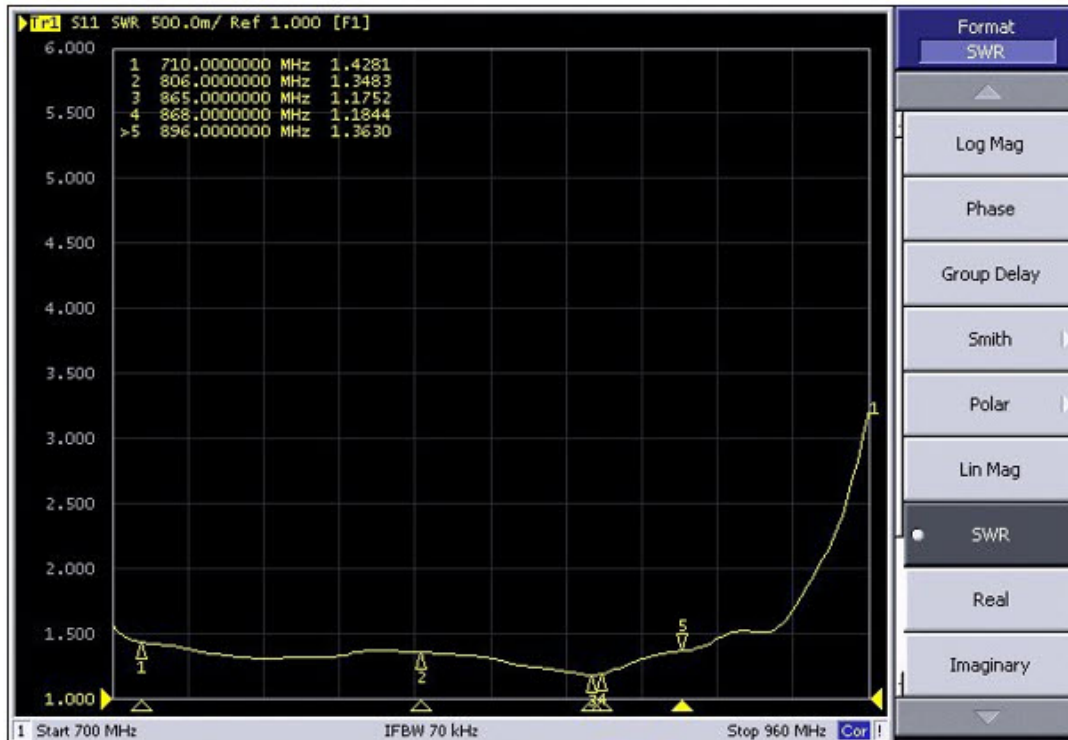
| Model                     | ANT-868-10dbi-Yagi                        | ANT-868-12.5dbi-Yagi | ANT-868-14dbi-Yagi |
|---------------------------|-------------------------------------------|----------------------|--------------------|
| Electrical Specification  | WideBand: 806-896MHz                      |                      |                    |
| Polarization              | Vertical Polarized / Horizontal Polarized |                      |                    |
| Max Gain                  | 10dbi                                     | 12.5dbi              | 14dbi              |
| H Beamwidth (-3dB, V-Pol) | 73° ± 7°                                  | 42° ± 5°             | 33° ± 5°           |
| E Beamwidth               | 55° ± 5°                                  | 39° ± 3°             | 30° ± 5°           |
| VSWR                      | <1.4                                      |                      |                    |
| Nominal Impedance         | 50 ohm                                    |                      |                    |
| F/B Ratio                 | >15dB                                     | >17dB                | >20dB              |
| Max Power                 | 100watts                                  |                      |                    |
| Mechanical Specification  |                                           |                      |                    |
| Connector                 | N-Female                                  |                      |                    |
| Radome                    | Fiberglass, Dia 20mm                      |                      |                    |
| Color                     | White/Grey                                |                      |                    |
| Dimension                 | 582 * 202 * 55mm                          | 941 * 202 * 55mm     | 1297 * 202 * 55mm  |
| Weight incl Mount Kit     | 0.7kg                                     | 0.9kg                | 1.2kg              |
| Max windload              | 200km/h, 125mph                           |                      |                    |
| Working Temperature Range | -45°C to +75°C                            |                      |                    |
| Storage Temperature       | -50°C to +75°C                            |                      |                    |

## Antenna Test Data:

## 2D Radio Pattern Model: ANT-868-10dbi-Yagi 6 Elements



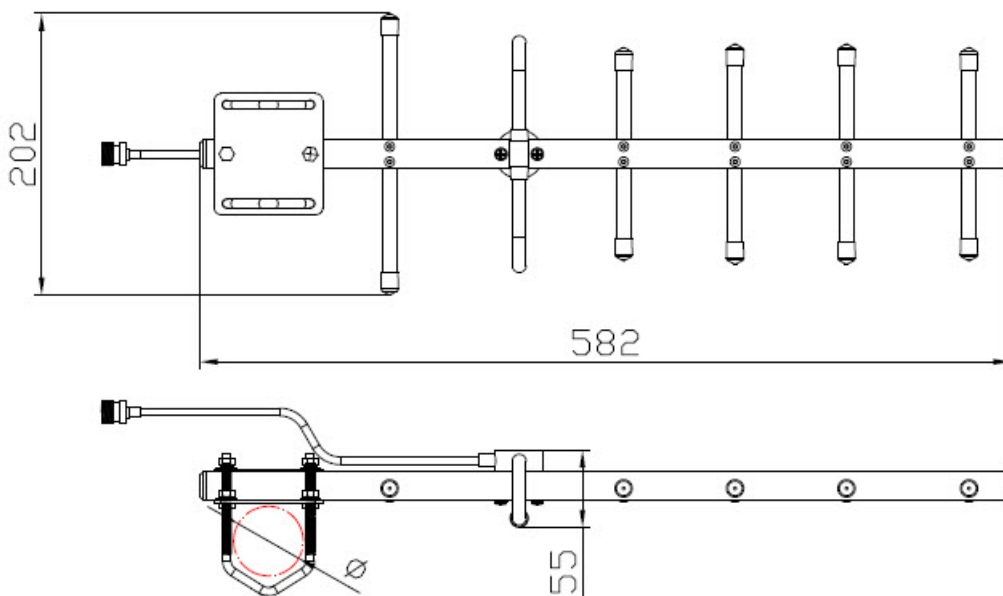
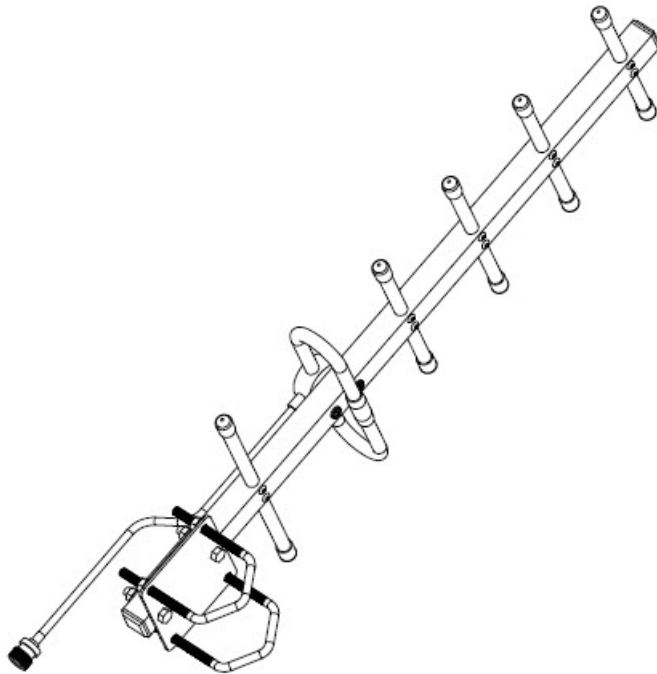
## VSWS and Return Loss Model: ANT-868-10dbi-Yagi 6 Elements





Part No.: 208181  
Vendor Part No.: ANT-868-10dbi-Yagi

## Mechanical Dimmension:



V-shape Bolts for Pole Dia  
 $\varnothing 30\text{mm} \sim \varnothing 50\text{mm}$



## Accessories

| Part No. | Name                                                        |
|----------|-------------------------------------------------------------|
| 177056   | ALLNET Antennen-Kabel LMR-195 R-SMA(m) <> N-Type(m) 1000 cm |
| 88874    | ALLNET Antennenkabel LMR-195 R-SMA - N-Type 1,5 Meter       |
| 88875    | ALLNET Antennenkabel LMR-195 R-SMA - N-Type 3,0 Meter       |
| 88876    | ALLNET Antennenkabel LMR-195 R-SMA - N-Type 5,0 Meter       |
| 88877    | ALLNET Antennenkabel LMR-195 R-SMA - N-Type 7,0 Meter       |
| 90403    | ALLNET Antennen-Kabel LMR-195 N-Type(m) <> N-Type(m) 150 cm |
| 90404    | ALLNET Antennen-Kabel LMR-195 N-Type(m) <> N-Type(m) 300 cm |
| 90405    | ALLNET Antennen-Kabel LMR-195 N-Type(m) <> N-Type(m) 500 cm |
| 93748    | ALLNET Antenna Cable / N-Type male/male, RG-8, 1m           |
| 93749    | ALLNET Antenna Cable / N-Type male/male, RG-8, 2m           |
| 93750    | ALLNET Antenna Cable / N-Type male/male, RG-8, 3m           |
| 93751    | ALLNET Antenna Cable / N-Type male/male, RG-8, 7m           |
| 93752    | ALLNET Antenna Cable / N-Type male/male, RG-8, 7m           |
| 78202    | ALLNET Antenna / Lightning protection, 5,8GHz N-Type Bu/St. |