

# 2G3WD-00D-V2

10 Port Antenna / 2L3H / 2.0m

**PROSE**

- 2×(698-960) + 3×(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 7/16 Connectors, each pair port separate scale

## Electrical Data (BASTA 11.1)

| Frequency(MHz) |          | 2×(698-960)    |          |          | 3×(1695-2690) |           |           |           |
|----------------|----------|----------------|----------|----------|---------------|-----------|-----------|-----------|
|                |          | 698-803        | 824-894  | 880-960  | 1695-1990     | 1920-2200 | 2300-2400 | 2500-2690 |
| Gain           | R1/R2    | Mid Tilt       | 14.5     | 14.9     | 15.6          |           |           |           |
|                |          |                | 14.4±0.5 | 14.9±0.6 | 15.5±0.5      |           |           |           |
|                | Y1/Y2/Y3 | Over All Tilts |          |          |               | 16.9      | 17.2      | 17.4      |
|                |          |                |          |          |               | 16.8±0.5  | 17.1±0.5  | 17.3±0.5  |
| Polarization   |          | °              | ±45      |          |               |           |           |           |

### Horizontal Pattern

|                            |    |      |      |      |      |      |      |      |
|----------------------------|----|------|------|------|------|------|------|------|
| 3dB Azimuth Beamwidth      | °  | 67±5 | 63±4 | 63±5 | 67±5 | 65±5 | 60±5 | 58±3 |
| Front to Back Ratio        | dB | > 22 | > 23 | > 23 | > 24 | > 25 | > 26 | > 26 |
| Cross-Polar Discrimination |    |      |      |      |      |      |      |      |
| At Mechanical Boresight 0° |    | > 18 | > 18 | > 18 | > 16 | > 16 | > 16 | > 16 |
| Over Sector ±60°           |    | > 9  | > 9  | > 7  | > 8  | > 6  | > 4  | > 4  |

### Vertical Pattern

|                                |    |          |          |         |         |         |         |         |
|--------------------------------|----|----------|----------|---------|---------|---------|---------|---------|
| 3dB Elevation Beamwidth        | °  | 10.7±0.7 | 10.0±0.8 | 8.9±0.4 | 7.2±0.6 | 6.3±0.6 | 5.6±0.5 | 5.2±0.5 |
| Electrical Downtilt            |    | 2-12     |          |         | 2-12    |         |         |         |
| 1st Upper Sidelobe Suppression | dB | > 16     |          |         | > 16    |         |         |         |

### RF Parameters

|                                  |     |        |       |
|----------------------------------|-----|--------|-------|
| VSWR                             |     | < 1.5  |       |
| Intra - Cluster Isolation        | dB  | > 25   | > 25  |
| Inter - Cluster Isolation        |     | > 25   | > 25  |
| 3rd PIM(2 x 43 dBm)              | dBc | < -150 |       |
| Efficiency                       |     | ≥ 70%  | ≥ 70% |
| Impedance                        | Ω   | 50     |       |
| Maximum Effective Power per Port | W   | 300    | 250   |

— Maximum Effective Power Whole Antenna: 1000 W.

**Mechanical Data** (BASTA 11.1)

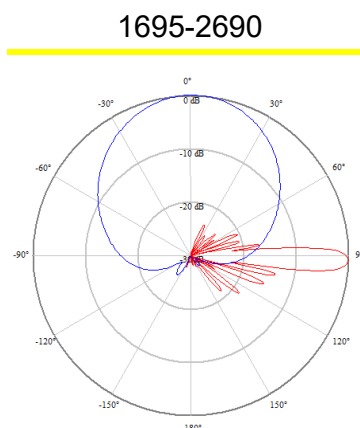
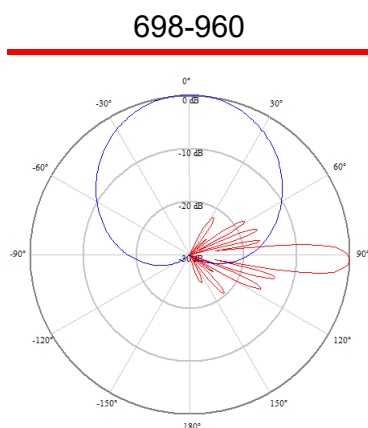
|                                                |                           |                       |
|------------------------------------------------|---------------------------|-----------------------|
| Connector Type                                 | 10 x 7/16DIN Female       |                       |
| Connector Position                             | Bottom                    |                       |
| Lightning Protection                           | DC Ground                 |                       |
| Reflector Material                             | Aluminum Alloy            |                       |
| Radiator Material                              | Low Loss Circuit Board    |                       |
| Radome Material                                | Fiberglass(UV resistance) |                       |
| Radome Color                                   | Light Grey                |                       |
| Antenna Net Weight                             | < 28 kg                   | 61.7 lb               |
| Shipping Weight                                | 33 kg                     | 72.8 lb               |
| Antenna Dimensions (H x W x D)                 | 1999 x 446 x 165 mm       | 78.7 x 17.6 x 6.5 in  |
| Packing Size (H x W x D)                       | 2260 x 525 x 260 mm       | 89.0 x 20.7 x 10.2 in |
| Survival Wind Speed                            | 241 km/h                  | 150 mph               |
| Wind Load @150 km/h (Frontal / Lateral / Rear) | 915 / 246 / 948 N         | 206 / 59 / 215 lbf    |
| Mast Diameter Supported                        | 50 - 110 mm               | 2.0 - 4.3 in          |
| Relative Humidity                              | 5% - 95%                  |                       |
| Operating & Storage Temperature Range          | -40 ~ +70 °C              | -40 ~ +158 °F         |



## RET Specification (BASTA 11.1)

|                                   |                                                                          |
|-----------------------------------|--------------------------------------------------------------------------|
| Compatible Standards              | AISG2.0/ 3GPP                                                            |
| Power Consumption                 | ≤2W(stand by); ≤13W(operating)                                           |
| Configuration Management          | Integrated RET, pre-configured                                           |
| Lifespan by number of adjustments | ≥ 10,000                                                                 |
| Daisy chain connection solution   | support daisy-chaining/cascade                                           |
| Voltage                           | 10-30VDC                                                                 |
| Hardware interface                | RS 485A/B(pin 5, pin 3) follow IEC 60130-9                               |
| Connector                         | 2x8 pin follow IEC 60130-9 Daisy chain in: Male; Daisy chain out: Female |
| Salt spray test                   | 500 Hours                                                                |

## Pattern (Sample for reference)

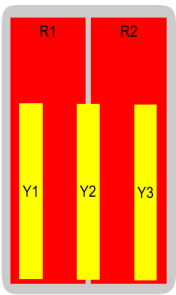
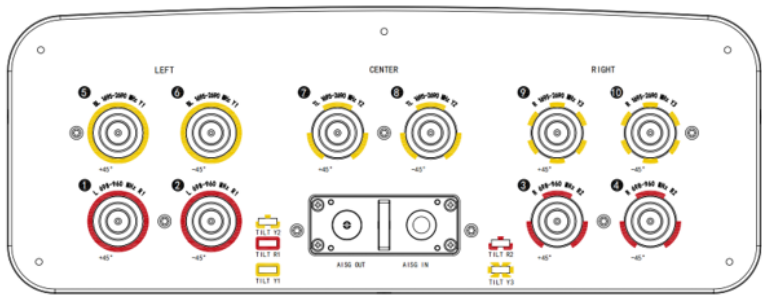


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## Layout



| Array | Connector | Frequency (MHz) | Sub Unit # | RET Type | RET Serial*        |
|-------|-----------|-----------------|------------|----------|--------------------|
| ●R1   | 1 - 2     | 698-960         | 3          | MRET     | RB.....XYYxxxxx-MM |
| ●R2   | 3 - 4     | 698-960         | 4          | MRET     | RB.....XYYxxxxx-MM |
| ●Y1   | 5 - 6     | 1695-2690       | 2          | MRET     | RB.....XYYxxxxx-MM |
| ●Y2   | 7 - 8     | 1695-2690       | 1          | MRET     | RB.....XYYxxxxx-MM |
| ●Y3   | 9 - 10    | 1695-2690       | 5          | MRET     | RB.....XYYxxxxx-MM |

\*Remark: X – Year, YY – Week , xxxxx – Serial Number

## Accessories

| Item         | Model | Weight          | Mechanical Tilt Range (°) |
|--------------|-------|-----------------|---------------------------|
| Mounting Kit | 85L-1 | 4.1 kg / 9.0 lb | 0-10                      |

## Compliance

- Our quality assurance system and our environmental management system apply to the entire company and are certified according to EN ISO 9001, EN ISO 14001 and OHSAS 18001
- Our products are compliant to the EU Directive RoHS 2 as well as to other environmentally relevant regulations (e.g. REACH)



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