

A、 Model: BCS1800CZ

B、 Name: BCS 1.8 Meter Motorized Vehicular SNG Antenna

C、 Picture:



D、 Application:

- 1、 emergency communication
- 2、 communication in wild
- 3、 telecast and mobile communication

E、 Datasheet:

| Electrical RF | | |
|------------------------|----------|---|
| Reflector | | 1.8 meter Carbon-Fiber |
| Precision of Reflector | | $RMS \leq 0.4mm$ |
| Feed | | Mode-matched with Rotary Joint, Offset, Prime Focus |
| Frequency | Transmit | 14—14.5GHz |
| | Receive | 12.25—12.75GHz |
| Gain | Transmit | 46.6dBi |
| | Receive | 44.9dBi |

| | | |
|--------------------------------|---------------------------|---|
| Cross-Pol Isolation | On-Axis | $\geq 35\text{dB}$ |
| | Off-Axis (within 1 dB BW) | $\geq 35\text{dB}$ |
| Feed Port Isolation - TX to RX | | $\text{TX} \geq 85\text{dB}$ |
| VSWR | Transmit | $\leq 1.3: 1$ |
| | Receive | $\leq 1.35: 1$ |
| Efficiency | | $\geq 60\%$ |
| Beamwidth -3 dB | Transmit | 0.79° |
| | Receive | 0.95° |
| Mechanical | | |
| Dimensions | Stowed | $2420 \times 1800 \times 523\text{mm}$ (l×w×h) |
| | Deployed | $1805 \times 1800 \times 2382\text{mm}$ (l×w×h) |
| Weight | | $\leq 110\text{kg}$ |
| Drive System | | 3 axis dynamoelectric |
| Travel | Azimuth | $\pm 220^\circ$ |
| | Elevation | $0^\circ - 90^\circ$ |
| | Polarization | $\pm 95^\circ$ |
| Speed | Azimuth | $0.15 - 2^\circ/\text{s}$ |
| | Elevation | $0.15 - 2^\circ/\text{s}$ |
| | Polarization | $6^\circ/\text{s}$ |
| Torsional | Azimuth | 2000Nm |
| | Elevation | 2500Nm |
| Mechanical back-driving | | $\leq 0.02^\circ$ |
| Controllers | | |
| ACU set | Size | 2U 19 inch depth 500mm |
| | Weight | 9kg |
| Signal Detection | | Beacon Receiver/DVB Receiver |
| Acquisition Method | | Semi-automatic Automatic and One-Button Acquisition |
| UI Language | | Chinese |
| Extra Equipment | | GPS、inclinor、Compass |
| Auto Acquisition Time | | $\leq 5\text{min}$ |
| Acquisition Precision | | $\leq 0.8\text{dB}$ |
| Stow Time | | $\leq 3\text{min}$ |
| Power Supply | | |
| Input Power | | AC 220V |

| | |
|-------------------------|---|
| Power Consumption | ≤500W |
| Environmental | |
| Operational Temperature | -20—60℃ |
| Survival Temperature | -55—70℃ |
| Operational Humidity | ≤95% (30℃) |
| Operational Wind Speed* | 21m/s Gusts to 28.4m/s Will not be broken in 35.9m/s |
| Survival Wind Speed | Deployed ≥35m/s |
| | Stowed ≥53m/s |
| Height Above Sea Level | ≤4500m |
| Dust | Can use in mostly of desert |
| Rain | 6mm/min and at least 60min , no leakage |
| Salt Atmosphere | Can use in mostly of littoral |

*: depends on mechanical strength of vehicle

F、 service:

1. Installation of antenna and acu and vehicle refitting;
2. The antenna and ACU are guarantee for a year or two years as the client's need;
3. Tele-support 、 local service、 return to factory.