

**External Antenna Survey Unit(ASU)**

| Electrical specifications    |                                                                                                                                                                                        |           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Module name                  | TRAE-TDGA12V10                                                                                                                                                                         |           |
| Release Version              | A1                                                                                                                                                                                     |           |
| Standard                     | AISG ES-RAE v 2.2.0/3GPP release 10                                                                                                                                                    |           |
| AISG device type             | RAE(0x31)                                                                                                                                                                              |           |
| Input voltage range          | 10-30V DC                                                                                                                                                                              |           |
| Power consumption            | <1W                                                                                                                                                                                    |           |
| Connectors                   | 2 x 8 pin connector according IEC 60130-9;<br>conforming to AISG ES-RAE v 2.2.0<br><br>Daisy chain in: RS485 male<br>Daisy chain out: RS485 female<br>Ready for daisy chain connection |           |
| Hardware interfaces          | Pin 1                                                                                                                                                                                  | 10-15V DC |
|                              | Pin 6                                                                                                                                                                                  | 10-30V DC |
|                              | Pin 3                                                                                                                                                                                  | RS 485 B  |
|                              | Pin 5                                                                                                                                                                                  | RS 485 A  |
|                              | Pin 7                                                                                                                                                                                  | DC return |
| Data rate                    | 9.6 kbps                                                                                                                                                                               |           |
| Firmware                     | Remotely upgradeable by .bin or .xml file                                                                                                                                              |           |
| Mechanical specifications    |                                                                                                                                                                                        |           |
| Dimensions(mm)               | 320×100×35                                                                                                                                                                             |           |
| Packing size(kg)             | 380×320×92                                                                                                                                                                             |           |
| Net weight(kg)               | 0.55                                                                                                                                                                                   |           |
| Packing weight(kg)           | 1.5                                                                                                                                                                                    |           |
| Environmental specifications |                                                                                                                                                                                        |           |
| Temperature range            | -40 °C to +70 °C                                                                                                                                                                       |           |
| Lighting Protection          | ±3KA(8/20us)                                                                                                                                                                           |           |
| Protection class             | IP 65                                                                                                                                                                                  |           |
| Accuracy                     |                                                                                                                                                                                        |           |
| Coordinate                   | ±5m (Open area without obstacles)                                                                                                                                                      |           |
| Altitude                     | ±5m (Open area without obstacles)                                                                                                                                                      |           |
| Azimuth                      | ±5° (Range: 0 ° ~359.9 °)                                                                                                                                                              |           |
| Mechanical tilt              | ±1° (Range:-90 ° ~90 °)                                                                                                                                                                |           |
| First position time          | 1 minute                                                                                                                                                                               |           |
| First orientation time       | 3 minutes                                                                                                                                                                              |           |

**Features:**

- 1,High reliability
- 2,High precision
- 3,Real time

**Notes:**

--Install ASU according to Installation manual.

