

## Starwin SW100 Maritime Antenna Datasheet



### Introduction:

Starwin SW100 1.0m Ku band maritime VSAT, uses the combination of high precision navigation sensor and signal intensity tracking, and embedded GPS module, the antenna can automatically search, identify and lock satellite signals. Even if ships cruise in harsh sea conditions, they can also ensure the stability of transmitting and receiving signals. Reliable communication can be established and maintained for vessels on extreme conditions. This system can realize two-way real time transmission of voice, data and image and others.

The system is used the three-axis stabilization method, and it can be applied to offshore and inland ships, or offshore platform.

### Features:

- Modular design, high integration, strong stability
- High tracking accuracy, fast response
- With 3-axis pedestal, apply to wider ocean area
- Broadband antenna technology

### Technical Specifications:

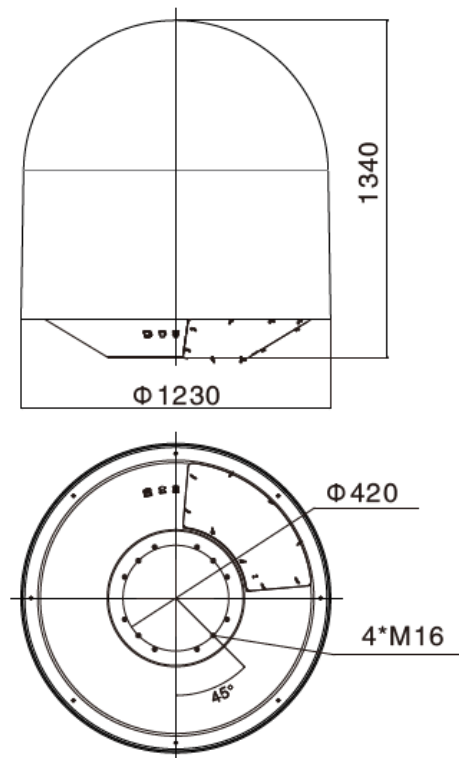
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|                              |                          |              |                                                      |
|------------------------------|--------------------------|--------------|------------------------------------------------------|
| Antenna Specifications       | Working Frequency        | Tx           | 13.75GHz~14.5GHz                                     |
|                              |                          | Rx           | 10.70GHz~12.75GHz                                    |
|                              | Antenna Gain             | Tx           | ≥40.5dBi@14.25GHz                                    |
|                              |                          | Rx           | ≥39.5dBi@12.5GHz                                     |
|                              | Polarization             |              | Linear, auto-adjustment                              |
|                              | EIRP                     |              | ≥48.0dBW@14.25GHz                                    |
|                              | G/T                      |              | ≥17.2dB/K@12.5GHz, 20°EI                             |
|                              | Antenna Type             |              | Parabolic                                            |
| Tracking Specifications      | Antenna Aperture         |              | Equivalent 1.0m                                      |
|                              | Port Isolation           |              | ≥85dB                                                |
|                              | XPD                      |              | ≥30dB                                                |
|                              | Pedestal Type            |              | 3-axis                                               |
|                              | Antenna Travel Range     | Azimuth      | 360°, unlimited                                      |
|                              |                          | Elevation    | -15°~120°                                            |
|                              |                          | Polarization | ≥210°                                                |
|                              |                          | Roll         | -40°~40°                                             |
|                              | Tracking Accuracy        |              | <0.2° (R.M.S)                                        |
|                              | Initial Acquisition Time |              | ≤120s                                                |
| System Specifications        | Re-acquire Time          |              | <3s (Occlusion time @60s)                            |
|                              | BUC Optional             |              | 4W/6W8W/16W/25W/40W (Built-in)                       |
|                              | Power Supply             |              | 100V~240V AC                                         |
|                              | Power Consumption        |              | <250W(Exclude BUC)                                   |
| Environmental Specifications | Working temperature      |              | -25°C~+55°C                                          |
|                              | Storage temperature      |              | -40°C~+65°C                                          |
|                              | Working Humidity         |              | 0%~95%                                               |
| Others                       | ACU size                 |              | 1U                                                   |
|                              | Weight                   |              | 116.5Kg (Including BUC and LNB, but excluding Modem) |
|                              | Dimension                |              | Φ 1230mm*H1340mm                                     |

## Dimension(mm):



## Mount Instruction:

