

# Practical

## Airborne SATCOM Terminal



BWA450B Airborne SATCOM terminal can be installed on various kinds of UAVs to provide remote control function and traffic channels for the carrier. The antenna can dynamically adjust its azimuth and pitch to accurately aiming the satellite during high-speed flight. The modem is responsible for modulating/demodulating transmitted/received signals. This terminal has the characteristics of simple structure and easy installation. Video data transmission, remote sensing data backhaul and other communication services are available by receiving control signals from system control center. It can solve the common problems such as remote control and broadband data transmission in UAV applications.

BWS800B/1000B Shipborne SATCOM Terminal	Common Shipborne SATCOM Terminal
<ul style="list-style-type: none"> <li>• <b>Simple structure and convenient installation</b></li> </ul>	<ul style="list-style-type: none"> <li>• Complex structure, not suitable for UVA</li> </ul>
<ul style="list-style-type: none"> <li>• <b>General external interface</b></li> </ul>	<ul style="list-style-type: none"> <li>• Complex interface design</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Under direct control of control center</b></li> </ul>	<ul style="list-style-type: none"> <li>• P2P only</li> </ul>
<ul style="list-style-type: none"> <li>• <b>IIPR &amp; Strong Customizability</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lack of core technology</li> </ul>

# Technical Parameter

## BWA450B Airborne SATCOM Terminal

• Dimension (Diameter x Height)	945mm × 260mm
• Weight	41kg
• Antenna Aperture	0.45m
• Polarization Mode	Linear polarization
• Receiving G/T	12.1dBi@12.75GHz
• Sending EIRP	48.4dBi@14.25GHz
• XPI	≥25dB
• Tracking Accuracy	0.2° RMS
• Azimuth Rotation	360°
• Pitch Rotation	0 ~ 90°
• Horizontal Rolling Rotation	-30° ~ 30°
• Azimuth Pitch Speed/Acceleration:	> 60° /s, 200° /s <sup>2</sup>
• Altitude	16800m
• Working Frequency	Sending: 14GHz ~ 14.5GHz, Receiving: 12.25GHz ~ 12.75GHz
• BUC Power	120W
• Support Services	Control Data, Video Data, Remote Sensing Data
• Data Rate	16Kbps ~ 2Mbps
• Modulation	QPSK
• Coding	LDPC
• Data Interface	RJ45, Wi-Fi
• Data Security (Optional)	AES data encryption, RSA Key exchange
• Operating Temperature	-40°C ~ +55°C
• External Power Supply	24V DC

