

# Fully Functional SATCOM Modem



The BWT300C SATCOM Modem can be used to modulate and demodulate SATCOM signals. Its modulation and coding methods can meet international common standards and the algorithm is implemented independently. It provides standard L-band interface as well as the feeding clock/voltage for BUC and LNB. This equipment can support FDMA/SCPC communication system, provide RJ45 and Wi-Fi interface and accept centralized M&C. 1U standard case size makes it can be easily installed in central stations, fixed stations or special vehicles.

BWT300C SATCOM Modem	Common SATCOM Modem
<ul style="list-style-type: none"> <li>• <b>Configuration once for all</b></li> </ul>	<ul style="list-style-type: none"> <li>• Complex configuration by using panel or Web</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Support P2P, Star/Mesh network</b></li> </ul>	<ul style="list-style-type: none"> <li>• Manual P2P</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>Support shared services, multicast, extended bandwidth, etc.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Single function, difficulty in expansion</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

## BWT300C SATCOM Modem

• Dimension	1U Case (450mm × 450mm × 45mm)
• Weight	3.5kg
• Channels	Control/Traffic Dual Channels
• Working Frequency	950MHz ~ 2150MHz
• Stepped Frequency	100Hz
• Output Level	No less than -40dBm ~ -5dBm
• Harmonic Suppression	≥ 35dB
• Carrier on-off Ratio	≥ 60dB
• Intermodulation Distortion IM3	≥ -40dBc
• Output Spurious	Better than -55dBc/4kHz
• Data Rate	64Kbps ~ 36Mbps
• Modulation	QPSK, 8PSK
• Coding	Control Channel: Convolutional Coding Traffic Channel: Convolutional coding, Convolutional Concatenated Reed-Solomon code, LDPC, TPC
• IP Access Indicators (Optional)	IP QoS Guarantee, IP Data Compression, TCP Acceleration
• IP Service Model	Bridge or Routing
• External interface	RJ45 × 2, N-type RF port × 2, BD/GPS antenna interface, RS232 interface, WIFI antenna interface
• Feeding Voltage/Clock	Controllable
• Local Monitoring	6 Panel Control Keys, Parameter setting and Status display
• Operating Temperature	-40°C ~ +55°C
• Storage Temperature	-50°C ~ +70°C

