

# Flexible and Strong

## Satellite Central Station Terminal



The BWM300C central station terminal is a modulation and demodulation device specially designed for SATCOM central stations. It adopts the standard 4U chassis size and integrates power modules, interface modules and main control modules. The device is equipped with eight card slots, each of which can be inserted into a satellite modulator/demodulator board card. Each board card has two two-way channels. The channel function can be dynamically defined by software, which can be used for transmission of service data or transmission of control data. Users can flexibly configure it according to network scale and service needs. A BWM300C central station terminal with a size of only 4U can easily support up to 16 concurrent channels, which greatly reduces the space occupation of the SATCOM central station computer room and effectively reduces the construction cost of the SATCOM central station.

BWM300C Central Station Modem	Common Central Station Modem
<ul style="list-style-type: none"> <li>• <b>Compact Design</b></li> </ul>	<ul style="list-style-type: none"> <li>• Larger Volume</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Multi Concurrency Channels</b></li> </ul>	<ul style="list-style-type: none"> <li>• Limited Concurrency Channels</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Module Function Dynamic Definition</b></li> </ul>	<ul style="list-style-type: none"> <li>• Fixed Module Function</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Self-owned IPR Customization Available</b></li> </ul>	<ul style="list-style-type: none"> <li>• No Core Technology Customization unavailable</li> </ul>

# Technical Parameter

## BWM300C satellite central station termina

• Dimension	4U Case ( 482mm × 450mm × 178mm )
• Weight	≤ 15kg
• Channels	16
• Working Frequency	950MHz~2150MHz
• Stepped Frequency	100Hz
• Output Level	-55dBm ~ -15dBm
• Harmonic Suppression	≥ 35dB
• Carrier on-off Ratio	≥ 60dB
• Intermodulation Distortion IM3	≥ -40dBc
• Output Spurious	Better than -55dBc
• Data Rate	32Kbps~36Mbps
• Modulation	QPSK、8PSK
• Coding	LDPC(1/2、3/4)
• Threshold Eb/N0	2.5dB(QPSK 1/2), 4dB(QPSK 3/4), 6dB(8PSK 3/4)
• IP Access Indicators ( Optional )	IP QoS Guarantee, IP Data Compression, TCP Acceleration
• IP Service Model	Routing
• External Interface	RJ45*2, N-type RF port*2, HDMI*1, USB*2
• Feeding Voltage/Clock	Rx: 10MHz, 13V / 18V, Controllable Tx: 10MHz, 24V, Controllable
• Local Monitoring	LCD Status display
• Operating Temperature	-20° C ~ +55° C
• Storage Temperature	-40° C ~ +70° C

