

COMPANY PROFILE

Doewe Technologies, headquartered in Beijing, has been operating for a decade and currently has branches including the Beijing R&D Center, Chengdu R&D Center, Doewe Shanghai, Doewe Shenzhen, and Doewe Hong Kong. The company is fully committed to building its independent brand "Doewe," with its business covering two main categories: Advanced Sensing Measurement and Control (ASMC) and Professional Test and Measurement Solutions (PTMS).

The ASMC product line provides innovative high-precision sensing acquisition and data analytics solutions. PTMS focuses on industry-specific test and measurement solutions for audio, video, and RF applications. It has established the 5XC product system, serving sectors such as transportation, broadcasting, automotive electronics, consumer electronics, and university research institutes.

Through relentless effort, several of the company's products have become benchmark test instruments in their respective industries. Doewe Technologies also holds multiple core patents and software copyrights, participates in relevant industry standards working groups, and contributes to the formulation of national and industry standards. Building on past achievements, Doewe continues to increase its R&D investment. We have never forgotten our original aspiration, firmly believing that only profound technological accumulation creates value. We persistently pursue innovation in test and measurement technology, dedicated to technology development, application software services, and research in test and measurement solutions.

Leveraging its Beijing headquarters, related technical centers, and subsidiaries, Doewe Technologies has gradually established a nationwide pre-sales and after-sales service network, providing customers with professional technical consultation. Guided by the principles of "Rigorous, Efficient, Professional, Innovative," Doewe Technologies will continue steadfastly on this path, living up to the trust of every customer.

The journey ahead is long and challenging. We will accompany you on this path of growth to create a new future of technology together.

Product Overview

The WNS broadcast channel simulator is a professional simulation device for wireless broadcast channel environments, achieving rf channel interconnection and dynamic wireless channel simulation.

Product Features

- Specifically designed for dab/drm digital broadcast channel simulation;
- Single-channel operation;
- Channel bandwidth supports 2MHz/20MHz;
- Supports awgn, cw interference source simulation, and allows setting the carrier-to-noise ratio.



Technical specifications (note: slight variations exist in different versions)

Item	Parameters
RF Channel	1
Frequency Range	1.5MHz ~ 300MHz
	Frequency extension possible: up to 40GHz
Local Oscillator Count	Independent design of the transceiver local oscillator (in extended channel conditions)
Channel bandwidth	2MHz/20MHz
Number of Fading Channels	Meets DAB/DRM standard requirements
Fading model	Rayleigh, Rice, Nakagami, Lognormal, Flat, Gaussian, etc.
Maximum Multipath Count for a Single Fading Channel	Meets DAB/DRM standard requirements
Input signal power range	-40dBm ~ -10dBm
Output signal power	-100dBm~-20dBm (meets sensitivity testing requirements)
Output signal power resolution	0.1dB (when output signal power $\geq$ -100dBm)
Output signal power accuracy	± 1.5 dB (when output signal power $\geq$ -100dBm)
Delay range	7us~400ms
Delay simulation resolution	0.1us
Maximum Doppler Shift	± 3 MHz
Output Signal Non-Harmonic Spurious Distortion	≤ -40 dBc(typical value)
Background Noise	No more than -150dBm/Hz @ typical value
Input/Output Port Voltage Standing Wave Ratio	1.6@F ≤ 6 GHz
Fading Channel Model	Gaussian, Rayleigh, custom mode, etc.
AWGN, CW Interference Source Simulation	Support
Custom Dynamic Simulation	Support
External Reference Input Interface	10MHz
Internal Reference Output Interface	10MHz
Simulation Synchronization Trigger Interface	Support
External Control Interface	1000M Ethernet
Remote Control Interface	Support
Dimensions (Width×Depth×Height) (mm)	8/16 channels: 485×602×277
	24/32/40/48/56/64 channels: 520×575×815





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