

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.

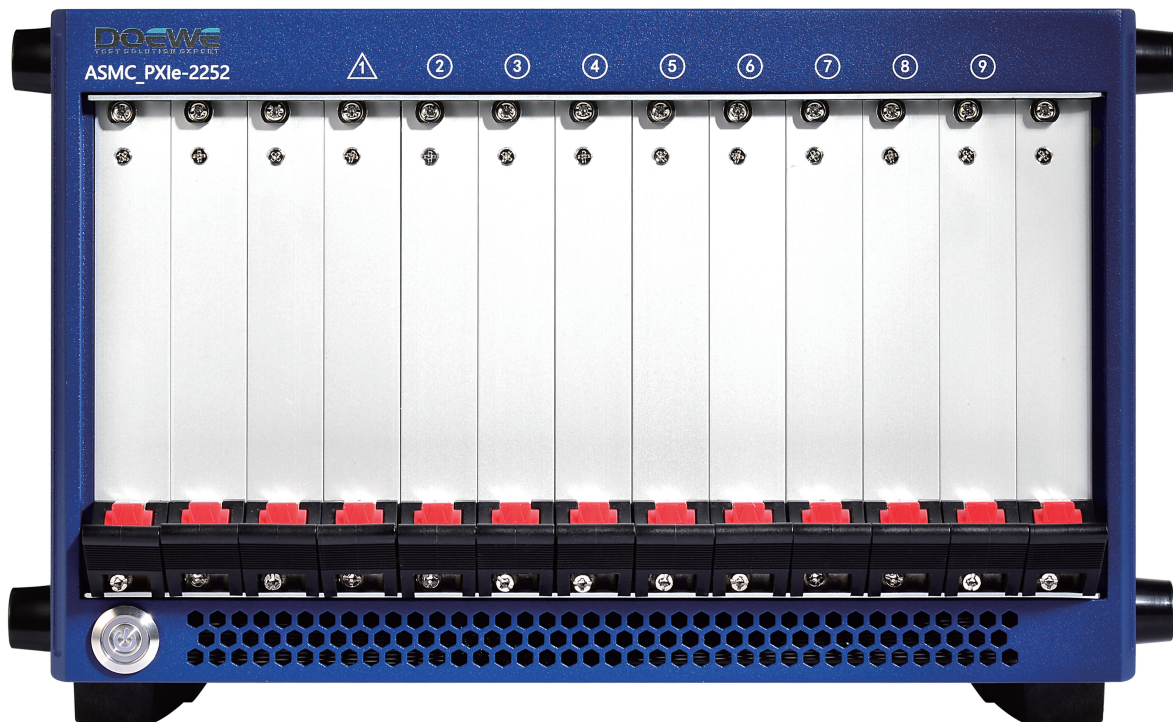
Leveraging its Beijing headquarters, related technical centers, and subsidiaries, Doewe Technologies has gradually established a nationwide pre-sales and after-sales service network, providing customers with professional technical consultation. Guided by the principles of "Rigorous, Efficient, Professional, 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 Introduction

The ASMC-PXle-2252 is a 9-slot PXI Express chassis featuring a range of advanced technical capabilities. Compliant with both PXI Express and CPCI Express specifications, the chassis provides one System slot, one System Timing slot, and seven Hybrid peripheral slots to meet diverse measurement and control application requirements for higher bandwidth. The Hybrid slot design allows Compact PCI, PXI, Compact PCI Express, and PXI Express modules to be installed in any peripheral slot within the chassis, offering maximum flexibility. The ASMC-PXle-2252 is a 2-Link PXI Express chassis capable of delivering a system bandwidth of up to 24 GB/s and supporting peripheral frequencies of up to 8 GB/s for all slots.

The ASMC-PXle-2252 chassis is equipped with an intelligent system monitoring controller, which can feedback various statuses of the chassis, including fan speed, system voltage, internal temperature, etc. The chassis is equipped with an industrial-grade AC power supply, which can provide 600W power below +55 °C. It also provides excellent cooling capacity through two 80mm×80mm cooling fans on the back of the chassis. There are two BNC connectors for 10MHz clock input/output on the rear panel, which improves the flexibility of the chassis and enables synchronization with auxiliary equipment. In summary, the ASMC-PXle-2252 chassis is the best choice for a PXI Express platform to meet all your testing and measurement needs.



Chassis Specifications



General Specifications

Project	Segmentation	Specifications
Power Supply	Input Voltage Range	100 – 240 VAC
	Working Voltage Range	85 – 264 VAC
	Input Voltage Freq.	50 – 60 Hz
	Working Voltage Freq.	47 – 63 Hz
	Input Rated Current	13 A @ 115 VAC
		10 A @ 230 VAC
	DC Output	Max. Total Power: 600 W
	12 V	Max.46 A, Load Regulation $\pm 3\%$, Ripple&Noise ≤ 100 mV
	5 V	Max.30 A, Load Regulation $\pm 3\%$, Ripple&Noise ≤ 100 mV
	3.3 V	Max.30 A, Load Regulation $\pm 3\%$, Ripple&Noise ≤ 60 mV
	5 VSB	Max.2 A, Load Regulation $\pm 5\%$, Ripple&Noise ≤ 60 mV
	-12 V	Max.0.8 A, Load Regulation $\pm 5\%$, Ripple&Noise ≤ 60 mV
Clock	10 MHz Reference Clock (10 MHz REF)	
	The max. phase difference between slots	300 ps
	Built-in Reference Accuracy	± 50 ppm
	BNC Output Amplitude	1Vpp@50 Ω load, $\pm 20\%$ Square Wave Input
		2Vpp@ (No-load)
	BNC Output Impedance	50 $\Omega \pm 5 \Omega$
	The requirement for an external 10 MHz clock input	
	Freq.	10 MHz ± 100 ppm
	BNC Input Amplitude	100mVPP – 5VPP (Square wave or Sine)
	BNC Input Impedance	50 $\Omega \pm 5 \Omega$
	The fifth slot PXI_CLK10_IN	3.3 V / 5 V TTL
	The 100 MHz internal clock (PXIE_CLK100)	
	The max. phase difference between slots	≤ 100 ps
	Precision	± 25 ppm
Heat dissipation capability	Fan	2 $\times$ 185.9 CFM
	The heat dissipation capacity per slot	30 W
Mechanical Dimensions	Slot Configuration	1 system slot + 1 system timing slot + 7 hybrid peripheral slots
	Dimensions (W $\times$ H $\times$ D)	321.9 mm $\times$ 191.4 mm $\times$ 465.3 mm
	Weight	8.8 kg (19.4 lb)
Environmental Conditions	Store	-20 ~ 70 $^{\circ}$ C @ 10 – 90 % RH (non-condensing)
	Operation	0 ~ 55 $^{\circ}$ C @ 10 – 90 % RH (non-condensing)
	Impact	30 G, half - sine, 11 ms
	Vibration	Work status: 5 – 500 Hz, 0.31 Grms, 3-axis
		Non-work status: 5 – 500 Hz, 2.46 Grms, 3-axis



High-bandwidth backplane and full hybrid slot compatibility

Four-Link PXle architecture delivers a maximum system bandwidth of 24 GB/s, with up to 8 GB/s peripheral bandwidth per slot. All 9 slots on the backplane are Hybrid slots, compatible with PXI, CompactPCI, CompactPCI Express, and PXle modules simultaneously, enabling unified integration and expansion capabilities for cross-generation hardware.

600 W industrial-grade power supply and efficient heat dissipation ensure reliable operation in extreme environments

The chassis is equipped with a wide-temperature industrial power supply, which can stably output 600 W at 55 °C, and the bus voltage drop is controlled ≤ 20 mV. Two 80 mm high-flow fans and a front-to-rear air duct design provide 30 W heat dissipation capacity per slot. The whole machine meets IP65 protection and passes the 256-hour salt spray test, and can work continuously in the environment of -20~70 °C and 10%-90% RH.

Onboard intelligent monitoring and clock synchronization improve system-level measurement and control accuracy

The integrated monitoring controller collects real-time data on fan speed, power supply voltage, and chassis temperature, and supports external verification via the DB9 interface. The backplane features 10 MHz reference clock input/output (BNC) and a dedicated System Timing slot for sub-nanosecond synchronization among multiple chassis and external devices. Base/Virtual modes can be quickly switched via a 3-PIN jumper to meet different requirements for development verification and mass production.





Beijing Doewe Technologies Co., Ltd

Beijing Headquarters

Address: Room 1821, Building 2, Soubao Business Center, No. 16 South Third Ring Road West, Fengtai District, Beijing.

Technology Center

Address: Room 1812, Building 2, Soubao Business Center, No. 16 South Third Ring Road West, Fengtai District, Beijing.

Doewe Technologies (Shanghai) Co., Ltd.

Address: Room 212, Kaidi Commercial Building, No. 688 Huajiang Road, Jiangqiao Town, Jiading District, Shanghai.

☎ Phone: 010-64327909

🌐 Website: <https://www.doewe.com>

✉ Email: info@doewe.com



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