

# COMPANY PROFILE

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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-8016 memory card adheres to Duowei Technology's consistent design philosophy of high reliability and high performance. Based on the standard 3U single-slot PXle hardware architecture, it has excellent modular expansion and system integration capabilities. The product is divided into two series, A and B, supporting various capacity configurations to meet customers' flexible needs for storage space. The B series additionally features P2P direct transmission functionality, enabling low-latency data interconnection between modules under the same switching chip.

The onboard high-speed switching chip and PCIe bus interface provide stable and abundant bandwidth, offering reliable transmission support for data-intensive application scenarios. Duowei Technology's independently developed slot identification technology can accurately locate each storage module in multi-card assembly environments, significantly enhancing the visualization and traceability of data management. The real-time energy monitoring function supports online viewing of power consumption dynamics, providing data basis for system energy consumption assessment and fault diagnosis. The internal power management and clock synchronization technologies operate in coordination to ensure stable power supply and precise timing, laying a foundation for high-reliability testing environments. The core storage units use high-durability storage media, combining stability and security to comprehensively reduce the risk of data loss.

With the above technical advantages, the ASMC-PXle-8016 memory card has been widely deployed in key fields such as vehicle manufacturing, aerospace, semiconductor production, physics and electronics laboratories, and national defense scientific research, deeply integrated into various professional testing processes. Duowei Technology's complete technical support and service system helps users efficiently complete data collection, storage, and transmission tasks, providing integrated storage solutions for modern testing systems and promoting industry technological progress and application upgrading.

## Core Parameters of Memory Card

- Capacity: Maximum support 16TB
- Bus Type: PCIe x8
- Max. read speed: 6.67 GB/s
- Max. write speed: 6.53GB/s
- Dimensions: 3U single-slot PXle standard
- Weight: approximately 0.5 kilograms
- Operating Temperature: 0℃ ~+50℃
- Storage Temperature: -45℃ ~+85℃
- Relative Humidity: 5%~95%(non-condensing)

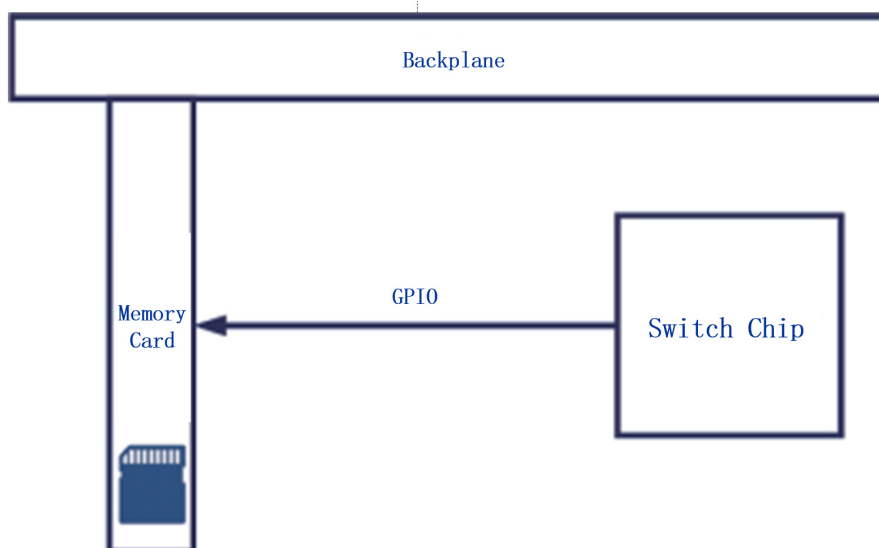


## Core Advantages



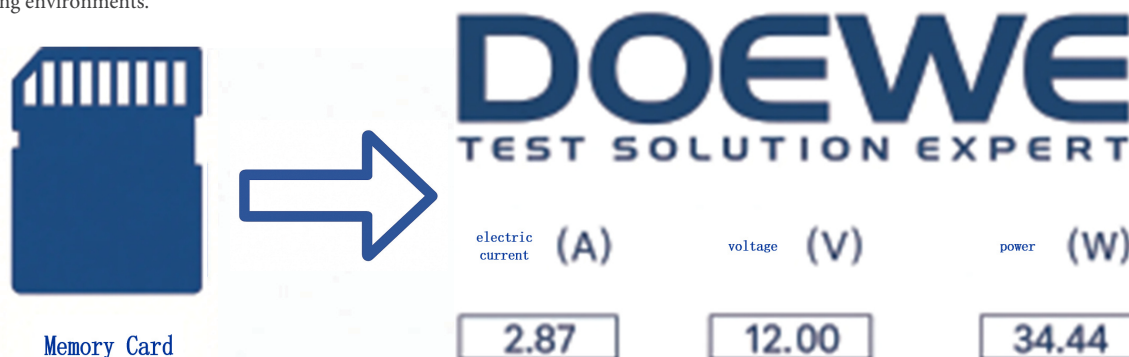
### Slot Recognition Technology

The ASMC-PXle-8016 employs a proprietary slot identification technology that can clearly recognize and label the specific positions of data storage cards within the chassis. In scenarios where multiple storage cards are inserted into the same chassis, this technology effectively assists users in determining the positional information of each storage card and its stored data, greatly facilitating subsequent data analysis and management.



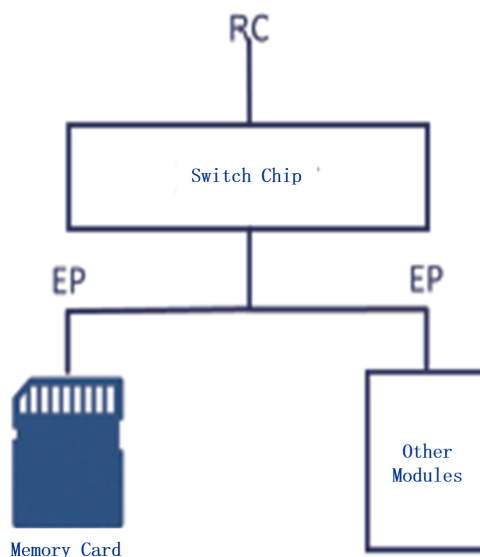
### Energy Monitoring Technology

The ASMC-PXle-8016 supports real-time power consumption reading, helping users monitor the energy consumption of the memory card. By keeping track of the memory card's power consumption data in real time, users can effectively evaluate the operating status of the system, optimize energy management, and improve overall system efficiency. This function is crucial for devices operating under high loads and in long-term working environments.



## High-Speed Low-Latency Transmission Technology

The ASMC-PXle-8016 offers industry-leading P2P (Peer-to-Peer) transmission technology. This means that data transmission between two devices connected to the EP (End-Point) ports of the PCIe switching chip can bypass external devices and occur directly through the switching chip. This data transfer method significantly reduces latency and improves transmission efficiency. This technology ensures high-speed transmission of large-bandwidth data, meeting the requirements of applications with high demands for low latency and high throughput.



## Product Portfolio Map







## Beijing Doewe Technologies Co., Ltd

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### **Technology Center**

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