

ASEAN Computing Power Industry Research Report 2026-2030

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Abstracts

Computing power refers to the comprehensive capability of a computer system to perform data processing, information analysis, and complex computational tasks through hardware devices and software algorithms.

Computing power primarily encompasses types such as general-purpose computing, intelligent computing, supercomputing, and edge computing.

The upstream of the computing power industry mainly consists of hardware manufacturing. The midstream includes the construction of computing infrastructure. Downstream mainly consists of application services.

The rapid development of technologies such as artificial intelligence, big data, cloud computing has made computing power a key factor of production driving the digital economy.

ASEAN is the most important regional cooperation organization in Southeast Asia. Established in 1967, it currently has a population of over 680 million and an aggregate economy exceeding US\$4 trillion. ASEAN is one of the fastest-growing emerging economic regions globally, with a GDP growth rate consistently above the global average.

In recent years, ASEAN countries have accelerated the development of digital infrastructure, and governments have actively promoted digital transformation, leading to sustained growth in regional demand for computing resources, data processing capabilities, and artificial intelligence services.

Currently, the ASEAN computing power market remains in the infrastructure expansion phase and possesses strong long-term growth potential.

According to estimates by CRI, the market size is projected to reach approximately US\$ 18.0 billion in 2026. With a forecasted compound annual growth rate (CAGR) of around 18.0% between 2026 and 2030, the market size is expected to reach US\$ 34.9 billion by 2030.

CRI recommends that global cloud computing companies, data center operators, telecommunications companies, AI chip and semiconductor companies, server and AI infrastructure companies, private equity (PE) funds and venture capital (VC) firms conduct timely market research on the ASEAN region to prepare for their strategic entry into the ASEAN computing power market.

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