6DD1600-0AH0

Industrial automation components

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Manufacturer	Siemens
Catalog number	6dd1600-0ah0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	0.45 kgs
Processor	32-bit RISC processor 64/128 MHz
DRAM	8 MByte (expandable to 16 MByte)
Buffered SRAM	256 KByte
Cycle Time	0.1 ms
Dimensions	20.14 x 233.4 x 220 mm
Weight	0.6 kg
Compatible Bus Systems	L and C bus systems

Description

The Siemens 6DD1600-0AH0 is a high-performance processor module designed for demanding industrial automation applications. As part of the SIMADYN D series, this module is engineered to handle both open-loop and closed-loop control tasks that require exceptional computational power or involve extensive program sizes. It features a 32-bit RISC processor operating at 64/128 MHz, delivering robust processing capabilities supported by 8 MByte of DRAM (expandable to 16 MByte) and 256 KByte of buffered SRAM for critical data retention. The module enables extremely fast cycle times of 0.1 ms, making it ideal for high-speed control applications. A typical control loop configuration can be achieved in approximately 0.5 ms, demonstrating the 6DD1600-0AH0's suitability for time-critical processes. The DRAM within the module stores program code, which loads and expands during memory module initialization, as well as data memory for the operating system, communications functions, message buffering, and trace capabilities. The buffered SRAM, protected by either a subrack battery or external battery, preserves essential data during and after power failures, including operating system error diagnostics, up to 1000 process quantities configured with the SAV function block, and

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data recorded through the message system or trace function. This processor module is compatible with both L and C bus systems, ensuring seamless integration within industrial automation environments. Its compact design, with dimensions of 20.14 x 233.4 x 220 mm and a weight of 0.6 kg, allows for efficient use of space in control cabinets. Manufactured by Siemens, a leader in electrical engineering, the 6DD1600-0AH0 processor module is synonymous with reliability and performance, making it a valuable component for complex automation systems.