6DD1600-0AC0

Industrial automation components

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Manufacturer	Siemens
Catalog number	6dd1600-0ac0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Processor Architecture	64/128 MHz RISC
Memory	8 MB DRAM, 256 KB battery-buffered SRAM
Communication Protocols	L-bus, C-bus
Input Voltage	24 V DC
Binary Inputs	8 (4 interrupt-capable)

Description

The Siemens 6DD1600-0AC0 is a SIMADYN D PM6 RAPID 64-bit CPU module engineered for high-performance automation tasks. Designed for the SIMADYN D distributed control platform, this module utilizes a 64/128 MHz RISC processor, delivering deterministic real-time performance with a minimum cycle time of 0.1 ms and typical control loop configuration in approximately 0.5 ms.

It features 8 MB of DRAM for program and data storage, along with 256 KB of battery-buffered SRAM for retaining operating system error diagnostics and up to 1000 configured process quantities. The module supports both L-bus and C-bus communication protocols, each independently usable for different transponder addresses, with selectable bus connection via C-BUS jumper.

Additionally, it includes 8 onboard binary inputs (24 V DC), with a maximum of 4 usable for interrupt tasks, and an RS-232 (V.24, DUST1 protocol at 19.2 kbaud) serial service interface for commissioning and diagnostics.

The 7-segment display provides real-time status and error diagnostics. This module is suitable for applications requiring high-speed, deterministic control, such as turbine control systems, drive control in heavy industries, motion control in machine tools, process automation in refineries, and factory automation in large assembly lines.

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