

SAKSHAM CPU

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In industrial automation, the programmable logic controller (PLC) relies on its central processing unit (CPU), the system's brain, to ensure precise and reliable control. The CPU executes user-defined logic, interprets instructions, reads inputs, processes data, and generates outputs for actuators and other devices. It manages memory for programs, data, and settings, preventing corruption while supporting efficient operation. Modern CPUs enable seamless communication with networks, devices, and HMIs, handle protocols, and perform self-diagnostics. Their processing power, memory, and advanced features are essential for performance, reliability, and productivity.

- Product : SAKSHAM CPU
- Released Date : From July 22
- Mounting : DIN-RAIL
- Control Element Keys : No
- Mode Button : No
- Normal Voltage : 24 V DC
- Low Voltage : 18.5 V DC
- High Voltage : 28.5 V DC
- Rated Input Current : 1 A
- Firmware Update : Yes
Possible
- Language Support : IEC 61131-3 Languages: Ladder (LD), Structured Text (ST), Function Block Diagram (FBD), SFC, Instruction List (IL) — via the embedded Soft-PLC runtime.

Accessories

- SCADA BASIC
- SCADA PROFESSIONAL
- CODESYS USB Key



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General Information

Product	: SAKSHAM CPU
Released Date	: From July 22
Firmware Update Possible	: Yes
Engineering Software	: Codesys
Display	: No
Control Element Keys	: No
Mode Button	: No
Mounting	: DIN-RAIL

Runtime Compatibility

Language Support	: IEC 61131-3 Languages: Ladder (LD), Structured Text (ST), Function Block Diagram (FBD), SFC, Instruction List (IL) — via the embedded soft-PLC runtime.
Other Features	: Web-based HMI & online debug, variable trace, and task monitor included.

Power Supply

Normal Voltage	: 24 V DC
Low Voltage	: 18.5 V DC
High Voltage	: 28.5 V DC
Rated Input Current	: 1 A
Maximum Input Current	: 1.5 A
Inrush Current Max	: 2.0 A
Power	: 10 W
Power Loss	: 4.8 W

Memory

Integrated Work Memory For Program	: 256 MB - 2048 MB
Integrated Work Memory For Data	: 8 GB - 32 GB

Hardware Configuration

Rack & Module	
No. of Module Per Rack	: 8 (Any IO Mix)
No. of Rack	: 8 Racks
No. of Module	: 64 Maximum

Interface Type-1

Ethernet(RJ-45)	: Yes
No. of ports	: Up to 2-separate MAC & IP
Speed	: 100 MBPS
Autonegotiation	: Yes
Autocrossing	: Yes
Industrial Ethernet Status	: Yes
Link/Status LED	: Yes

Interface Type 2

Serial Connection	: Up to 4 (RS 232 / RS 485)
	: Screw Connection

Protocols

Ethernet/IP	: Available
EtherCAT	: Available
Modbus TCP/IP	: Available
Profinet IO Controller	: Available
OPC-Ua	: Available
Media Redundancy	: Available

Runtime Limits

No. of Tasks	: Up to 100
No. of free-wheeling task	: Up to 100
No. of Event Task	: Up to 100
No. of Status Task	: Up to 100
Min. Cycle Time	: 1 ms
Max. Watchdog time	: 400000000 µs
Max. Watchdog Sensitivity	: 10 µs

Time and Date

Clock Type	: On Board RTC
Operating Hours Counter	: Available
Synchronization Support	: Yes

Supported Technology Objects

PID Control	: Yes
Feed Forward PID Control	: Yes
Temperature PID Control	: Yes
Timer	: Yes
Counter	: Yes
Motor & Valve Blocks & Many More	: Yes