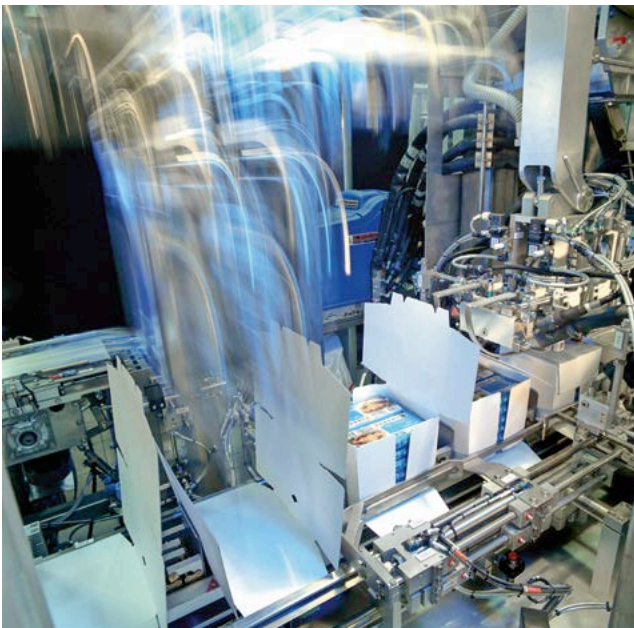


SIEMENS



SIMATIC ET 200AL – the rugged I/O for effortless mounting anywhere

siemens.com/et200al



State-of-the-art automation of assembly lines calls for extremely flexible and space-saving distributed control electronics which are also as rugged as possible. At the same time, requirements on the efficiency of automation components are increasing, particularly in engineering and in assembly.

With the SIMATIC ET 200AL, Siemens provides the solution: with the high IP65/67 degree of protection and the compact design, low space requirements and weight, the compact modules are specially designed for applications in tight spaces and involving motion. They can be screwed on through the front or the side for installation in all mounting positions.

With up to 32 modules per station, SIMATIC ET 200AL has a high IO capacity. The modules can be incorporated in the automation network via PROFINET, PROFIBUS or the integration of the ET 200SP. Moreover, inclusion in the TIA Portal guarantees maximum engineering efficiency.

Answers for industry.

Simply impressive

SIMATIC ET 200AL modules stand out with a range of advantages as early as in the engineering phase, but also during assembly and in operation, making them the right choice of distributed I/O for a wide variety of applications.

Impressive in engineering and configuration

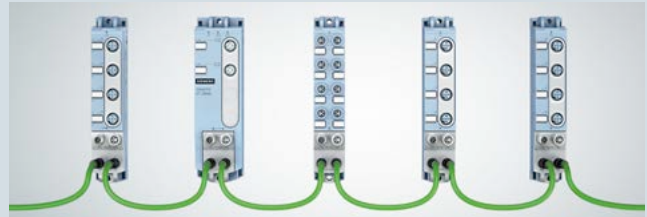
The integrated engineering in the TIA Portal enables consistent system diagnostics and efficient operation. The possibility of interfacing to SIMATIC ET 200SP and the CAx-compatible labeling of all interfaces also ensure a high level of efficiency during configuration and commissioning. The ET 200AL supports configuration management (option handling) for the realization of flexible machine concepts.

Impressive in assembly

Vertical or horizontal, screwed on from the front or from the side: SIMATIC ET 200AL modules can be easily installed in any position. They are installed directly in a machine or assembly line on location and the sensors and actuators are then integrated by means of M8 connection technology. Color coding of the sockets and the corresponding connecting cables simplifies wiring. In addition, socket arrangement has been optimized to facilitate cable laying.

The cable ties can be secured directly on the module to support cables. The modules can be optionally connected to PROFINET or PROFIBUS or integrated in SIMATIC ET 200SP. This makes for flexible configuration.

Structure of ET 200AL in IP65/67



Integration of ET 200AL in ET 200SP



Impressive in operation

With a width of only 30 or 45 mm, the SIMATIC ET 200AL modules enable the connection of sensors and actuators in extremely small spaces by means of reliable M8 and M12 connection technology. The modules comply with the IP65/67 protection class and operate reliably within a temperature range of $-25\text{ }^{\circ}\text{C}$ to $+55\text{ }^{\circ}\text{C}$ and with accelerations of up to 5 g. Plastic enclosures make the modules particularly lightweight. SIMATIC ET 200AL modules are thus the perfect choice for applications involving movement.

The outputs of the ET 200AL devices allow safety-related shutdown of actuators in groups. In addition, with the PROFlenergy functionality, individual consumers or entire production units can be shut down in a coordinated manner during production-free periods.

	Type	Short designation	MLFB
Interface modules	PROFIBUS	IM 157-1 DP	6ES7 157-1AA00-0AB0
	PROFINET	IM 157-1 PN	6ES7 157-1AB00-0AB0
	ET 200SP terminal module	BU-Send BA-Send 1x FC	6ES7 193-6BN00-0NE0 6ES7 193-6AS00-0AA0
I/O modules	Digital input module	DI 8x 24 VDC; 8x M8	6ES7 141-5BF00-0BA0
	Digital hybrid module	DIQ 4 + DQ 4x 24 VDC/0.5 A; 8x M8	6ES7 143-5BF00-0BA0
	Analog module	AI 4x U/I/RTD; 4x M12	6ES7 144-5KD00-0BA0
	Function module	CM 4x IO-Link; 4x M12	6ES7 147-5DJ00-0BA0
Connecting cables	For internal bus connection	M8, 4-pin, shielded, straight/angled; connector at one end/both ends	Diverse variants
	For power supply	M8, 4-pin, straight/angled; connector at one end/both ends	Diverse variants