






Simatic HW basic / PLC Types

The original S7 series debuted in the mid-1990s as a successor to the S5 line. The current generation (S7) was introduced between 2009 and 2013 to integrate with the TIA Portal.

Siemens SIMATIC S7 controllers range from compact, entry-level units to high-performance modular systems designed for complex industrial automation. The S7-1200 and S7-1500 represent the current generation optimized for the TIA Portal, while the S7-300 and S7-400 are legacy modular systems.

Feature	LOGO! (Basic)	S7-1200 (Compact)	S7-1500 (Advanced)	S7-300 (Legacy)	S7-400 (High-End)
					
Launch Year	1996	2009	2012	1994	1994
Status	Active (Current: LOGO! 8)	Active (G2 launched Dec 2024)	Active (Flagship series)	<i>Phasing out as of 2023</i>	Active for specialized/critical tasks
Design	Logic Module Programmable Relay	Compact Modular	Modular with Display	Legacy Modular	Legacy High-End
Max Digital I/O	24 Inputs / 20 Outputs	Up to ~280	High Density (thousands)	High Density	Very High (rack-based)
Integrated I/O	Always included	Integrated onboard	No (onboard display only)	Some models only	No
Expansion	35mm DIN rail modules	Max 8 Signal Modules	Max 32 modules/rack	Max 8 modules/rack	Up to 21 racks
Redundancy	No	No	Hardware (R/H models)	Software only	Full Hardware (H)
Software	LOGO! Soft Comfort	TIA Portal	TIA Portal	Step 7 / TIA Portal	Step 7 / TIA Portal

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