This is a highly subjective comparison chart for PLCs available on the market per 2007. It does not contain every single PLC brand in existence out there. I am confident though that I have not omitted a PLC brand with a market share above 1%.

The information is gathered from the web, from experience (for Siemens and AB), and from hearsay. Do not take it as a 100% correct and profesional market survey (that would cost top dollar to make).

I do not guarantee the correctness of the data. The information is subjective and presented "as is".

Enjoy. Jesper M. Pedersen December 2007.

Brand name	s	Rockwell / Allen Bradley	Mitsubishi	Omron	Grp. Schneider / Modicon	GE Fanuc	Moeller	Hitachi	Sharp	B & R	ABB	Koyo (AD)	Beckhoff	Toshiba	LG	Phoenix Contact	Wago	Panasonic (Matsushita)	VIPA	Bosch-Rexroth
Latest and greatest PLC types.	\$7-400, \$7-300	ControlLogix, CompactLogix	Q series	CS1, CV1	Premium, Quantum, M340	RX7i, RX3i	XC100, XC200	H series, EH-150		X20	AC500	DL205, DL405	CX range, IPC ranges.	V seies, SE2/ST2	series, GM series	RFC430, RFC450		Fpsigma, FP2	300V, 300S	CML65
Homepage(s) Warning: Clicking on the cell will normally open the linked website in your		.siwww.rockwellautomati www.ab.com/	iorwww.mitsubishi-autom	at www.ia.omron.com/	www.telemecanique.co	om www.gefanuc.com/as_e	en.www.moeller.net/en/inc	duwww.hitachi-ds.com/en	/pwww.sharp-world.com/	srwww.br-automation.co	m www.abb.com/	www.koyoele.co.jp/eng		www.toshiba.com/ind/	www.lgis.com/main/ma	irwww.phoenixcontact.co	nwww.wago.com/start/s	arwww.mew.co.jp/ac/e/	http://www.vipa.de/en/l ome/	http://www.boschrexroth.
webbrowser. PLC Market share per 2003 (source: Milestones in Automation, Arnold Zankl ISBN 3-89578-259-9)	3 28.8 %	19.1 %	14.3 %	8.3 %	8.3 %	3.7 %	2.4 %	1.9 %	1.9 %	1.5 %	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Most important market(s)	置	US	Japan	Japan - East asia	France	US	EU	Japan	Japan	EU	None specifically	Japan - US	EU	Japan	South Korea	EU	EU	Japan	EU	EU
Other significant market(s)	the world	Rest of the world	Rest of the world	Rest of the world	EU - US	?	none	none	none	none	Rest of the world	none	Rest of the world	Rest of the world	none	Rest of the world	Rest of the world	Rest of the world	?	US
Weak market(s)	none	none	none	none	Rest of the world	?	Rest of the world	Rest of the world	Rest of the world	Rest of the world	none	Rest of the world	none	none	Rest of the world	none	none	none	none	?
Support for IEC611131-3 programming languages									none			none								All
Redundancy solutions				none			none	none	none	none	none	none	none	?		none	none	none	none	none
Integrated machine safety solutions	yes		non-integrated (*1)) non-integrated (*1)) non-integrated (*1) ?	none	none	none	none	non-integrated	non-integrated		none	non-integrated	none		none	none	yes
Integrated Motion solutions	nlimited")			non-integrated			none		none		none	non-integrated		none		none	none		?	yes
HMI solutions	many (*2)			some		some	some	some	some	some	some		some (*7)	some	some	none	none	some	some	many
DCS solution				none	none		none	none	none	none		none	none	some		none	none	none	none	none
Electrical components			some			none		none	none	none			none	none		some	some	some	none	none
Primary bus "families" (native)	Profibus, Profinet	ControlNet, DeviceNet, Ethernet/IP	Melsecnet, CC- Link,	CompoBus/S, CompoNet, Devicenet	Modbus, Modbus TCP	Genius, Devicenet, Profibus, Ethernet/IP?	, CanOpen	?	Ethernet ?, Devicenet	CanOpen, Etherne Powerlink	t Profibus, Devicenet, Arcnet, Modbus, S31, Ethernet ?		- CanOpen, EtherCa	at ?	Ethernet ?, Devicenet	Interbus, (Profinet)	Profibus, CanOper Devicenet	, S-Link, MEWNET F	- Profibus	Profibus, ethernet, ethernet/IP, SERCOS, SERCOS III
Secondary networking/bus families.	Asi	ProfiBus (*4)	Profibus, Devicenet, Asi		CanOpen, Asi			Profibus, Devicene	rt	Can, Devicenet, Profibus		Modbus	Profibus, DeviceNet, others.						CanOpen, Interbus	Devicenet, CanOpen, Interbus
Comments (warning: highly subjective).	share and product range Siemens is the "Microsoft of the automation world".	the "other" player in the automation worl Too much dependen on the US market though. High quality of both software and hardware is handicapped by bein the market leader when it comes to the price level.	d. t	reta enfetti DI C lina)	Website is ridiculously slow.	range of PLCs. Not		rt				PLC products are in the low end of the water. Low water. Low performance, small program size and i/o count, weak networking. Translates into low price.	variant. Represented everywhere and growing strongly, bu		about them. Impressive but also confusing portfolio with too many PLC	"dead ends". PLC products are secondary to the othe product lines. Strong I as a supplier of i/o	n PLC is a 3S CoDeSy variant. PLC product are secondary to the or other product lines. Strong as a supplier of i/o blocks.	s medium-low i/o count segment is	Compatible in large degree, though not 100%, with Siemens S7-300.	CoDeSve variant

^{*1:} Safety is not part of standard PLC solution (but there is a separate safety PLC line).

^{*2:} There are problems with latest generation software. These problems are slowly being resolved. Status as of today is that the software is usable, but we definitely havent arrived at "HMI heaven" yet.

^{*3:} Uses separate PLCopen library for motion.

^{*4:} Profibus via 3rd party products.

^{*5:} In parallel with IEC, there are also "traditional" programming languages.

*6: HMI solutions are split into 2 products (Vijeo & Citect) that will run side-by-side for quite some time.

*7: Has a full range of panel PCs with both WinCE and WinXP embedded, For WinXP there is a HMI solution, but not for WinCE. Beckhoff's own "Target Visu" for Win CE has only minimal HMI functionality.

^{*8:} not sure if the profisafe terminals can be used with a Wago PLC. There are safety functions in CoDeSys, so in theory it should be possible. INFORMATION WANTED TO CONFIRM OR DENY THIS.

^{*9:} INFORMATION WANTED TO CONFIRM OR DENY THIS. ALSO IF THERE ARE ANY LIMITATIONS OR PITFALLS.

^{*10:} V-series only.

Listing of PLC brands that are continuing an otherwise discontinued PLC type.			
Brand name	CTi	INAT	SoftPLC
Website	http://www.controltechnology.com/	http://www.inat.de/index.php?id=34	4http://www.softplc.com/
At least partially backwards compatible with:	Texas Instruments TI-505.	Siemens S5-115U, S5-135U, S5- 155U.	Allen Bradley PLC2, PLC3, PLC5, SLC500.
Comments:	Has a very substantial range of TI-505 compatible parts, CPUs, PSUs, racks and i/o modules.		Software is compatible in that AB programs can be converted with a tool. Can attach i/o via AB RIO.

Listing of very small PLC brands.												
Brand name	Saia	Festo	Jetter	OPTO-22	Honeywell	Advantech	Idec (Izumi)	Unitronics	Frenzel + Berg	IBH	Entertron	Contec
Website	http://www.start-controls.com/	http://www.festo.com/INetDomin	10/ <u>c</u>		http://hpsweb.honeywell.	coi	www.idec.com	http://www.unitronics.co	m/http://www.frenzel-berg.	de/http://www.ibhsoftec-sps	dehttp://www.entertron.com	http://www.contec.at/47-
Comments:	Some CPUs are software compatible with Siemens S7, but looks like they are dropping going in that direction. Latest CPUs are programmed in IEC601131-3 (CoDeSys?)	2		Appearantly no online programming.	PLC products appear orphaned in Honeywells range of services and solutions.			All PLCs are PLC/HM combinations.	All Board-level "kits" as well as packaged "blocks". Three programming styles/product ranges: IEC(CoDeSys), "SS-like" and uC (C/assembler). Uses CanOpen bus.	A bit special. Package a Beckhoff WindowsCE IPC with their S7 softplc - and presto: An S7 compatible PLC at a rock-bottom price. i/o must be purchased fro Beckhoff.		Board level CPU. Claims to be the fastest PLC in the world. Uses an FPGA to achieve this. I guees that means no online change. Uses CoDeSys for programming.