SLC Processors

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- Use the following tables to select the SLC processor that fits your application.
- Data table maximum words is user configured.
- Maximum timers/counters is restricted only by memory.

Cat. No.	User Memory, Max.	Number of I/O	Local Analog I/O, Max.	Program Scan Time/Kword	I/O Scan Time
SLC 5/01 Processor					
1747-L511	1K instructions	960 absolute maximum (local)	480	8 ms (typ)	2.6 ms (typ)
1747-L514	4K instructions				
SLC 5/02 Processor					
1747-L524	4K instructions	4096 in + 4096 out absolute maximum‡ §	480	4.8 ms (typ)	1.6 ms (typ)
SLC 5/03 Processor★					
1747-L531	8K words total (4K words for data or prog.) (4K words for data only)	4096 in + 4096 out absolute maximum‡ §	480	1 ms (typ)	0.225 ms (typ)
1747-L532	16K words total (12K words for data or prog.) (4K words for data only)				
1747-L533	32K words total (28K words for data or prog.) (4K words for data only)				
SLC 5/04 Processor					
1747-L541	16K words total (12K words for data or prog.) (4K words for data only)	4096 in + 4096 out absolute maximum‡ §	480	0.9 ms (typ)	0.225 ms (typ)
1747-L542	32K words total (28K words for data or prog.) (4K words for data only)				
1747-L543	64K words total (60K words for data or prog.) (4K words for data only)				
SLC 5/05 Processor ♣					
1747-L551	16K words total (12K words for data or prog.) (4K words for data only)	4096 in + 4096 out absolute maximum‡ §	480	0.9 ms (typ)	0.225 ms (typ)
1747-L552	32K words total (28K words for data or prog.) (4K words for data only)				
1747-L553	64K words total (60K words for data or prog.) (4K words for data only)				

★ Modbus slave protocol is embedded in the RTU-5/03 processors available from an Encompass partner. The Modbus slave protocol is supported on the RS-232 port (channel0). For information on the Encompass program visit: **www.rockwellautomation.com/encompass/**.
‡ The absolute maximum number of I/O for these processors only reflects the I/O addressing capability. It does not take into account the amount of memory that may be required for a ladder-logic program to monitor and control the I/O. The practical ratio of memory per I/O is totally dependant upon your specific application.
§ You cannot configure this number of I/O for these processors with local I/O only. To configure this number of I/O for these processors, you must add a 1747-SN Remote I/O Scanner module to configure I/O on a Universal Remote I/O link, add a 1747-SDN DeviceNet Scanner module to configure I/O on a DeviceNet network and/or add a 1747-SCNR ControlNet Scanner module to configure I/O on a ControlNet network.
♣ The 5/05 Series C processors can communicate to 100 Mbps and support increased Ethernet connections: 1747-L551=32 connections; 1747-L552=48 connections; 1747-L553=64 connections.

SLC Processors (continued)

Cat. No.	No. of Local I/O Chassis, Max.	No. of I/O Module Slots in the Local I/O Chassis, Max.	Communication Ports	Backup Memory	Battery-backed RAM	Backplane Current Load
SLC 5/01 Processor						
1747-L511 1747-L514	3	30	DH-485‡	EEPROM	Option	350 mA at 5V DC 105 mA at 24V DC
SLC 5/02 Processor						
1747-L524	3★	30	DH-485	EEPROM	Standard	350 mA at 5V DC 105 mA at 24V DC
SLC 5/03 Processor						
1747-L531 1747-L532 1747-L533	3★	30	DH-485 RS-232§	Flash	Standard	500 mA at 5V DC 175 mA at 24V DC
SLC 5/04 Processor						
1747-L541 1747-L542 1747-L543	3★	30	DH+ RS-232♣	Flash	Standard	1 A at 5V DC 0 A at 24V DCΔ
SLC 5/05 Processor						
1747-L551 1747-L552 1747-L553	3★	30	Ethernet RS-232♣	Flash	Standard	1 A at 5V DC 0 A at 24V DC

★ With this processor, you can also install a 1747-SN Remote I/O Scanner module to configure I/O on a Universal Remote I/O link and/or add a 1747-SDN DeviceNet Scanner module to configure I/O on a DeviceNet network. You can configure 32 I/O chassis per Universal Remote I/O scanner using complementary I/O. If you don't use complementary I/O, you can configure 16 I/O chassis per Universal Remote I/O scanner. With the DeviceNet scanner, you can address a maximum of 63 DeviceNet devices over the DeviceNet network.

‡ An SLC 5/01 processor can only receive messages and send reply messages to command messages sent from other nodes on the DH-485 network; it cannot initiate communication.

§ The SLC 5/03 has an RS-232 port, which can also be configured for a DH-485 network, enabling the SLC-5/03 to connect to two DH-485 networks simultaneously.

♣ The SLC 5/04 and SLC 5/05 have an RS-232 port, which can also be configured for a DH-485 network.

Δ SLC 5/04 processors manufactured prior to April 2002 draw 200 mA @ 24V DC. Check the processor label to verify current draw.