Processor Category	I/O, Max.	I/O Communication	User Memory, Max.	General Communication Ports
SLC 5/01	960	•Processor-resident local I/O	•1K or 4K instructions	•DH-485 (cannot initiate messages)
SLC 5/02	4096 in + 4096 out	•Processor-resident local I/O •I/O at remote locations★	•4K instructions	•DH-485
SLC 5/03	4096 in + 4096 out	•Processor-resident local I/O •I/O at remote locations★	•8K, 16K, or 32K words total	•DH-485 •RS-232‡
SLC 5/04	4096 in + 4096 out	•Processor-resident local I/O •I/O at remote locations★	•16K, 32K, or 64K words total	•DH+ •RS-232‡
SLC 5/05	4096 in + 4096 out	•Processor-resident local I/O •I/O at remote locations★	•16K, 32K, or 64K words total	•Ethernet •RS-232‡

★ This type of I/O in this type of controller system requires a separate I/O scanner installed in an I/O module slot to provide a ControlNet, DeviceNet, or Universal Remote I/O port.
‡ Configurable for communication through a 1761-NET-AIC in a DH-485 network or through a 1761-NET-DNI in a DeviceNet network.

SLC Processors

- 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)