

Allen-Bradley 1785-L80E

Allen-Bradley 1785-L80E is an Allen-Bradley PLC5 Controller. This controller has 100K words of user memory, supports 3072 (any mix) or 3072 in + 3072 out (complementary). It has embedded communication ports such as Two (2) DH+/Remote I/O (Adapter or Scanner) One (1) serial port, configurable for RS-232 and 423 and RS-422A standards and One (1) Ethernet communication port. Technical specifications for 1785-L80E

Manufacturer Rockwell Automation

Part Number/Catalog No. 1785-L80E

Brand Allen-Bradley

Product Family: PLC5

Product Type: Programmable Logic Controller

Power Supply: 1771-P4S, -P6S, -P4S1, -P6S1

Power Dissipation: 17.3W

Backplane current load: 3.3A

Embedded Communication interfaces: 4 DH+/Remote I/O (Adapter or Scanner) 1 serial port, configurable for RS-232 and 423 and RS-422A standards

Memory: 100 KWords

Battery: 1770-XYC

Maximum Number of I/O Racks: 93

Maximum number of I/O per link: 32

Operating Temperature: EC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 0...60 °C (32...140 °F)

Non-Operating Temperature: IEC 60068-2-1 (Test Ab, Un-packaged Nonoperating Cold), IEC 60068-2-2 (Test Bc, Un-packaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Un-packaged Nonoperating Thermal Shock): - 40...85 °C (- 40...185 °F)

Module Type Ethernet PLC-5 Processor

Processor PLC-5/80E

Max User Memory Words 48 Kilowords

Battery-Backed Static RAM Yes

EEPROM Program Backup Option (using 1785-ME16, -ME32, -ME64, and -M100) Yes

Protected Memory No

Max Total I/O 3072 (any mix) or 3072 in + 3072 out (complementary)

Max Analog I/O 2048

I/O Scan Time Per Rack 10 ms at 57.6 kbits/s, 7 ms at 115.2 kbits/s, 3 ms at 230.4 mbits/s

Max I/O Chassis Total 65

Max I/O Chassis Extended Local 0

Max I/O Chassis Universal Remote 64

RS-232-C/422-A/423- A Ports 1

Control Coprocessor Expansion Port Yes

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www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

UPC 10612598137210 Description

The Allen-Bradley 1785-L80E is a legacy Programmable Logic Controller (PLC) by Allen-Bradley. This PLC is ideally used for Large applications with complex control requirements. It is capable of implementing discrete and analog control in both manual and automatic modes, implement motion, calculation, counting and deployment of advanced control algorithms such as Proportional + Integral + Derivative (PID) control.

This controller has a non-expandable user memory amounting to 100KWords used for storing user programs, and configuration. The contents of the user memory is maintained by a Lithium battery with catalog number 1785-XYC. Non-volatile memory backup devices may be installed to the controller to complement the internal user memory. Compatible memory devices for this controller are 1785-ME16 for 16K words, 1785-ME32 for 32K words, 1785-ME64 for 64K words and 1785-ME100 for 100K words.

The 1785-L80E has embedded communication ports that allow the controller to communicate with different industrial devices and implement distributed I/O applications. This communication ports include a 25-Pin RS232 communication port used for point-to-point communication. It supports DF1 Full and Half duplex protocols. It also has an 8-Pin mini-DIN programming terminal, Channels 1A and 1B combo ports that are configurable for Data Highway Plus (DH+) and Remote I/O (RIO) Adapter or Scanner. It also has an Ethernet communication port that supports 10/100 Mbps with auto-negotiation capability. These communication interface functions independently and may operate simultaneously.

This controller supports installation of a total of 93 I/O chassis with a maximum of 32 Remote I/O chassis per link, capable of controlling I/Os up to 3072 any mix or 3072 in + 3072 out (complement).

The 1785-L80E is installed on the leftmost slot of the 1771 I/O chassis and draws 3.6A backplane current at 5 VDC and dissipates 65 BTU/hour heat when operational. The controller uses the 1770-XYC battery module for maintaining the volatile user memory and either the 1785-ME16, 1785-ME64, 1785-ME32, or the 1785-M100 memory modules lithium battery as memory backups.

The 1785-L80E supports the 8-point, 16-point, 32-point, and the 1771 intelligent I/O modules, and it has a maximum I/O scan time of 0.5 milliseconds for extended-local I/O adapter, 10ms for remote I/O rack at 57.6 kbps, and 3ms for remote I/O rack at 230.4 kbps transfer speed. The processor has a maximum user memory of 100K words SRAM and supports a maximum of 24 I/O racks, and a maximum of 65 I/O chassis link. The processor addresses I/O hardware in 3 different modes, the 2-slot mode which address any mix of 8-point module, and a 16-point pair module, the 1-slot mode which addresses any mix of 8 and 16-point modules, and a 32-points I/O pair modules, and the half-slot mode supports any mix of 8, 16, and 32-points modules. The

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1785-L80E has 1 dedicated 15-pin Ethernet communication port, 2 Data Highway Plus (DH+)/Remote I/O (Adaptor or Scan) ports for connection to the DH+ network, and 1 RS-232-C, 422-A, and a 423 serial communication port. It has an internal circuit clock with +/- 5 min per month accuracy variation and it has a rated operational temperature range of 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) at 5 to 95% non-condensing humidity without derating. It can meet an operational shock of 30G and a vibration of 1G at 10-500 Hertz without derating and is CSA, C-TICK, CE, and UL-certified. The 1785-L80E weighs approximately 1.38 kilograms (3.0 pounds) and comes with an open enclosure.



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