

Allen-Bradley 1785-L80C15

The Allen-Bradley 1785-L80C15 is a ControlNet PLC5 Programmable Logic Controller (PLC). This controller features a variety of embedded communication ports such as serial, Data Highway Plus (DH+), DH using 1785-KA, Remote I/O (RIO) and ControlNet. It supports a maximum user memory of 100K Words and capable of handling any mix of discrete I/O with a total of 3072 point and 3072 Technical specifications for 1785-L80C15

Manufacturer Rockwell Automation

Max Total I/O 3072 (any mix); 3072 Input / 3072 output (complimentary)

Module Type Processor

Part Number/Catalog No. 1785-L80C15

Brand Allen-Bradley

Communication Ports Data Highway Plus (DH+); Remote I/O (RIO); Serial; DH using 1785-KA; Two (2) ControlNet

Controller Memory up to 100 Kwords

Hardware Addressing 2-slot; 1-slot; 1/2-slot

Program Scan time 0.5 ms per K word (bit logic) 2 ms per K word (typical)

Module Location 1771-A1B, -A2B, A3B, -A3B1, -A4B chassis; left-most slot

I/O system Bulletin 1771 I/O, 1794 I/O, 1746 I/O, and 1791 I/O including 8-, 16-, 32-pt, and intelligent modules

Battery Allen-Bradley 1770-XYC

Memory Modules 1785-ME32, 1785-ME64, 1785-M100

Controller Redundancy Supported

Processor PLC-5/80C

Max User Memory Words 100 Kilowords

Battery-Backed Static RAM Yes

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

Protected Memory No

Max Analog I/O Forcible 3072 and Nonforcible 50176

I/O Scan Time Per Rack ControlNet I/O 0.5 ms (average); Universal Remote I/O 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 125

Max I/O Chassis Extended Local 0

Max I/O Chassis Universal Remote 60

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

Control Coprocessor Expansion Port Yes

UPC 10612598180391 Description

The Allen-Bradley 1785-L80C15 is a ControlNet PLC5 Programmable Logic Controller (PLC) that is part of the legacy controller platform. This controller is compatible of being used in large and complex application as it is capable of handling up to 3072 Input and Output devices of any

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combination or 3072 Input and 3072 Output when configured in complimentary mode.

The 1785-L80C15 is embedded with a variety of communication ports particularly One (1) serial interface supporting DF1 protocol, One Data Highway Plus (DH+), One (1) Remote I/O (RIO) protocol, DH using 1785-KA, and ControlNet communication port using RG6 coax media cable. ODH+, RIO and ControlNet are capable of networked topology and high-speed data exchange. DH+ and RIO supports data transmission rate of 57.6 Kbits/s, 115.2 kbits/s and 230.4 Kbits/s while ControlNet supports transmission rate of 5Mbps communication rate.

The 1785-L80C15 is also capable of being configured in 2-slot, 1-slot and $\frac{1}{2}$ slot addressing. With 2-slot addressing, any mix of 8-pt modules, 16-pt modules may be used. With 1-slot addressing, any mix of 8-16 pt modules may be used while 32 pt modules must be in I/O pairs. With $\frac{1}{2}$ slot addressing, any mix of 8, 16 or 32 pt modules may be used.

The 1785-L80C15 may be installed in I/O chassis such as 1771-A1B, 1771-A2B, 1771-A3B, 1771-A3B1 and 1771-A4B. It specifically occupies the left most slot, occupying a single slot of the chassis with keying requirements of between 40 and 42 nad between 54 and 56.

This module comes with a ControlNet Network Access Port (RJ45 connector). This module is equipped with several indicators such as the ControlNet I/O Status Indicator (Green/Red), the Channel 2 ControlNet Status Indicator (Green/Red), the Battery Status Indicator (Red), the Processor RUN/FAULT Status Indicator (Green/Red), the Force Status Indicator (Amber), the Channel 0 Communication ACTIVE/FAULT Status Indicator (Green/Red), and the Channel 1 Status Indicator (Green/Red). This module also comes with a battery compartment for its replaceable battery with catalog number 1770-XYC.

This module also comes with several channels. Channel 0 is optically-coupled, providing high electrical noise immunity and it can be used for most RS-422A equipment. The 1785-L80C15 has a dedicated ControlNet Redundant Media Ports BNC. The operating temperature of this module is 0-60 deg. Celsius (32-140 deg. Fahrenheit). The storage temperature of this module is -40-85 deg. Celsius (-40-185 deg. Fahrenheit). The relative humidity of this module is from 5-95% non-condensing. The Allen-Bradley 1785-L80C15 has an operating shock of 30 g (3 pulses, 11 ms). The nonoperating shock of this module is 50 g (3 pulses, 11 ms). This module has an ESD immunity of 4 kV contact discharges. The weight of this module is around 3 lbs, 2 oz (1.42 kg). The maximum user memory words of this module are 100K. The program scan times of this module are 0.5 ms per K word (bit logic) and 2 ms per K word (typical).

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