

Allen-Bradley 1746 1747 Series Service Manual

1785-L40C

1. Description

The 1785-L40C processor module is a ControlNet processor module that has been designed and manufactured by Allen-Bradley. It is available through the PLC 5 series of control system components. The 1785-L40C ControlNet processor module has 48K of SRAM that is battery-backed. Its I/O capacity is 2048 total I/O or 2048 inputs and 2048 outputs arranged in a complementary setup. The 1785- Technical specifications for 1785-L40C

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1785-L40C
Module	Type ControlNet Processor Module
Processor	PLC-5/40
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 2048 (any mix) or 2048 in + 2048 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 61
Max	I/O Chassis Extended Local 0
Max	I/O Chassis Universal Remote 32 Max. Per I/O Link
RS-232-C/422-A/423-	A Ports 1
Control	Coprocessor Expansion Port Yes
UPC	10612598139337 Description
The	1785-L40C PLC-5/40C is an Allen-Bradley Controller with ControlNet Network Capability a 48-KB Word SRAM Processor and ControlNet capability installed on the I/O slot of the 1771 I/O Chassis, and it is used for controlling the outputs and inputs of field devices. The processor has 48KB of maximum u

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The 1785-L40C PLC-5/40C is an Allen-Bradley Controller with ControlNet Network Capability a 48-KB Word SRAM Processor and ControlNet capability installed on the I/O slot of the 1771 I/O Chassis, and it is used for controlling the outputs and inputs of field devices. The processor has 48KB of maximum user memory words, with a maximum I/O capacity of 2048 (with 2048 in and 2048 out complementary), and a maximum program scan time of 0.5ms per K-word measured in bit logic and the scan time is 2ms per K-word (typical). The controller draws 3.3A of backplane current at 5V DC, and its maximum heat dissipation is 59 BTU/hour when it is operational. The controller supports the 1785-CHBM ControlNet Hot Backup Cartridge, for use in a hot backup of the system, and it supports the 1771, 1794, 1746, and the 1791 8-point, 16-point, and 32-point modules, and the intelligent I/O modules. The controller has a base-configured RJ45 Connector ControlNet Network Access Port, with an I/O transmission rate of 5mb per second, and with a user selectable network update time of 2-100ms, and a Co-Processor port.

The controller also comes with an 8-pin mini-DIN connector for programming, and a 3-pin default DH+ port, and it also has a 25-pin D-shell Serial Port with selectable transmission rates that range between 57.6K bit/s and 230.4K bit/s, and a selectable scan port time between 10ms per rack at 57.6K bit/s and 3ms per rack at 230K bit/s. The 1785-L40C's maximum thermal dissipation is 59 BTU/hour, and it is built for operation without de-rating at a temperature 0-60 oC (32-140 oF), at 5-95% noncondensing relative humidity, and the controller can be stored at -40-85 oC (-40-185 oF). The 1785-L40C can withstand a 30G operational shock, with a 1G vibration at 10-500Hz, and it has an open-style enclosure. It weighs about 1.42kg (3lbs), and it is UL, CE, CSA, and C-TICK-certified.

