

1764-LSP

Allen-Bradley (Rockwell Automation) · MicroLogix 1500 / Bulletin 1764

The Allen-Bradley 1764-LSP is the base processor unit of the MicroLogix 1500 brick-style controller, mounting on a 1764 power-supply/base I/O module to form a compact PLC for small machine and process control. It provides 7.6K word of user memory (expandable to 12-14K word depending on series) and communicates via an RS232 port using DH-485, DF1, Modbus, and ASCII protocols, supporting up to 512 expansion I/O points. Program and data are held in volatile CMOS RAM backed by a 1764-BATM lithium battery with optional EEPROM memory module, and the controller was discontinued on June 30, 2017 (migrate to MicroLogix 1400 or CompactLogix).

Manufacturer: Allen-Bradley (Rockwell Automation)

Brand: Allen-Bradley

Part Number/Catalog No.: 1764-LSP

Base Catalog: 1764-LSP

Series Suffix: None

Product Type: Processor / Controller (Base Unit)

Product Family: MicroLogix 1500 / Bulletin 1764

Model-Specific Specifications:

MicroLogix 1500 base processor

7.6K word user memory (Series B 12K / Series C 14K)

RS232 port (DH-485/DF1/Modbus/ASCII)

up to 512 expansion I/O

compatible base units 1764-AWA/BWA/BXB

supports 1764-MMx memory modules and 1764-F1C

RAM + 1764-BATM battery backup

bus current ~380 mA

2 built-in trim pots

DIN/panel mount

discontinued 2017.

Series / Family Common Specifications:

Compact, packaged form factor smaller than full-size SLC/PLC; mounts on standard DIN rail and panel.

Available as 24V DC or 120/240V AC powered controllers (variant depends on model).

Embedded I/O on controller; 1762/1764/1766 support optional rackless expansion I/O (1762 modules shared across 1100/1200/1400); 1761 is fixed.

Serial comm via RS-232, RS-485, DH-485; later controllers (e.g. 1766 MicroLogix 1400) add embedded Ethernet.

Programmed with RSLogix 500 / RSLogix Micro; instruction set shared with SLC 500.

Ladder user program + data in nonvolatile memory; optional memory/RTC backup; capacity varies by model.

Lifecycle Status: Discontinued

Discontinuation Date: 2017-06-30

Recommended Replacement: Functional Replacement