

# 1764-LSP

## MicroLogix 1500 Processor

Allen-Bradley 1764-LSP is the standard MicroLogix 1500 processor with 7.65K words of configurable program and data memory. It supports DF1, DH-485, Modbus RTU and ASCII communications through the documented controller arrangement.

| IDENTITY       | VERIFIED VALUE                                  |
|----------------|-------------------------------------------------|
| Manufacturer   | Allen-Bradley                                   |
| Complete model | 1764-LSP                                        |
| Product role   | MicroLogix 1500 Processor                       |
| System family  | MicroLogix 1500                                 |
| Source record  | 1764-LSP official catalog record and 1764-UM001 |

### DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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1764-LSP

# Technical Specifications

| PARAMETER           | VERIFIED VALUE                      |
|---------------------|-------------------------------------|
| Controller family   | MicroLogix 1500                     |
| Processor type      | Standard processor                  |
| Configurable memory | 7.65K words for program and data    |
| Communications      | DF1, DH-485, Modbus RTU and ASCII   |
| Expansion I/O       | Bulletin 1769 Compact I/O           |
| Optional memory     | 1764-MM1 memory module              |
| Optional clock      | 1764-RTC or 1764-MM1RTC             |
| Lifecycle           | Discontinued by Rockwell Automation |

## ENGINEERING BOUNDARY

Use only the complete Allen-Bradley 1764-LSP identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

## Related Products on Apter Power

| MODEL                              | APTER POWER PAGE                                        |
|------------------------------------|---------------------------------------------------------|
| Allen Bradley 1203-GD1             | <a href="#">View Allen Bradley 1203-GD1</a>             |
| Allen Bradley 1203-GU6             | <a href="#">View Allen Bradley 1203-GU6</a>             |
| Allen Bradley 1305-BA01A-HA2       | <a href="#">View Allen Bradley 1305-BA01A-HA2</a>       |
| Allen Bradley 1305-BA03A           | <a href="#">View Allen Bradley 1305-BA03A</a>           |
| Allen Bradley 1336-L4-42336-200-51 | <a href="#">View Allen Bradley 1336-L4-42336-200-51</a> |
| Allen Bradley 1336-PB-SP23C        | <a href="#">View Allen Bradley 1336-PB-SP23C</a>        |

# System Role and Common Applications

Allen-Bradley 1764-LSP is the standard MicroLogix 1500 processor with 7.65K words of configurable program and data memory. It supports DF1, DH-485, Modbus RTU and ASCII communications through the documented controller arrangement.

**FUNCTION 1**  
Provides configurable MicroLogix 1500 program and data memory

**FUNCTION 2**  
Supports multiple serial communication protocols

**FUNCTION 3**  
Works with documented Bulletin 1769 expansion I/O

**FUNCTION 4**  
Accepts optional memory and real-time-clock modules

| APPLICATION                   | ENGINEERING CONTEXT                                                                |
|-------------------------------|------------------------------------------------------------------------------------|
| Standalone machine control    | Executes MicroLogix 1500 ladder logic with local and expansion I/O.                |
| Serial device integration     | Communicates through the configured DF1, DH-485, Modbus RTU or ASCII protocol.     |
| Legacy controller replacement | Restores an identical processor after program, firmware and base-unit checks.      |
| Program backup                | Uses the approved optional memory module to preserve and transfer the application. |

**ACCEPTANCE DUTY**  
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

## Engineering Precautions and FAQ

| NO. | PRECAUTION                                                                              |
|-----|-----------------------------------------------------------------------------------------|
| 1   | Verify the complete 1764-LSP catalog number and series.                                 |
| 2   | Upload and save the controller program, data and communication settings before removal. |
| 3   | Confirm the MicroLogix 1500 base unit and Bulletin 1769 I/O arrangement.                |
| 4   | Match the installed firmware and programming-software compatibility.                    |
| 5   | Power down the controller and observe ESD controls before handling the processor.       |
| 6   | Check optional memory and real-time-clock modules before transfer.                      |
| 7   | Restore the exact communication protocol, node address and baud settings.               |
| 8   | Verify I/O, communications and the controlled machine sequence before release.          |

| QUESTION                                                          | ANSWER                                                                              |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| What is Allen-Bradley 1764-LSP?                                   | It is the standard processor for the MicroLogix 1500 controller family.             |
| How much configurable memory does Allen-Bradley 1764-LSP provide? | Rockwell Automation lists 7.65K words shared between program and data.              |
| Which protocols are supported by Allen-Bradley 1764-LSP?          | The official product record lists DF1, DH-485, Modbus RTU and ASCII communications. |
| Which expansion I/O is used with Allen-Bradley 1764-LSP?          | The MicroLogix 1500 system uses documented Bulletin 1769 Compact I/O modules.       |

## Related Products on Apter Power

| MODEL                                          | APTER POWER PAGE                                                    |
|------------------------------------------------|---------------------------------------------------------------------|
| Allen Bradley 1336-PB-SP5A                     | <a href="#">View Allen Bradley 1336-PB-SP5A</a>                     |
| Allen Bradley 1336-QOUT-SP19A                  | <a href="#">View Allen Bradley 1336-QOUT-SP19A</a>                  |
| Allen Bradley 1336T-LM1EN                      | <a href="#">View Allen Bradley 1336T-LM1EN</a>                      |
| Allen Bradley 1336T-LM1EN-74103-015-52A-297346 | <a href="#">View Allen Bradley 1336T-LM1EN-74103-015-52A-297346</a> |
| Allen Bradley 1361-NO61-2-5                    | <a href="#">View Allen Bradley 1361-NO61-2-5</a>                    |
| Allen Bradley 1426-M5E-DNT                     | <a href="#">View Allen Bradley 1426-M5E-DNT</a>                     |

# FAQ, Related Products and Official Sources

| QUESTION                                                          | ANSWER                                                                                                                    |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Which backup options are available for Allen-Bradley 1764-LSP?    | The controller accepts the 1764-MM1 memory module and 1764-MM1RTC memory/clock module.                                    |
| What must be saved before replacing Allen-Bradley 1764-LSP?       | Save logic, data, communication settings, I/O configuration, firmware and any memory-module record.                       |
| What confirms successful commissioning of Allen-Bradley 1764-LSP? | Correct RUN status, cleared fault tables, verified I/O and communications, and a controlled machine test confirm release. |

| MODEL                          | APTER POWER PAGE                                    |
|--------------------------------|-----------------------------------------------------|
| Allen Bradley 1492-ACABLE010TB | <a href="#">View Allen Bradley 1492-ACABLE010TB</a> |
| Allen Bradley 150-C30NBR       | <a href="#">View Allen Bradley 150-C30NBR</a>       |
| Allen Bradley 150-F135NBDB     | <a href="#">View Allen Bradley 150-F135NBDB</a>     |
| Allen Bradley 1503VC-BMC4      | <a href="#">View Allen Bradley 1503VC-BMC4</a>      |
| Allen Bradley 1503VC-BMC5      | <a href="#">View Allen Bradley 1503VC-BMC5</a>      |
| Allen Bradley 1503VC-BMC5-MC1  | <a href="#">View Allen Bradley 1503VC-BMC5-MC1</a>  |

## MANUFACTURER SOURCE RECORDS

Rockwell Automation 1764-LSP Product Details - 1764-LSP official catalog record and 1764-UM001  
MicroLogix 1500 Programmable Controllers User Manual - 1764-UM001D-EN-P

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