

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.

BRAND	Allen-Bradley	MODEL	1764-LSP
PRODUCT	MicroLogix 1500 Processor	FAMILY	MicroLogix 1500
OFFICIAL SOURCE	Rockwell Automation 1764-LSP Product Details	RECORD	1764-LSP official catalog record and 1764-UM001

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

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.

Technical Data and Acceptance

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

Acceptance Path

1 IDENTITY

The complete 1764-LSP marking and revision agree with the engineering record.

2 COMPATIBILITY

System position, companion hardware and interfaces match the manufacturer documentation.

3 CONFIGURATION

Saved values, channel mappings and protection limits are restored without unexplained change.

4 FUNCTIONAL PROOF

Diagnostics and the model-specific controlled test pass without unexplained fault.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete 1764-LSP catalog number and series.	What is Allen-Bradley 1764-LSP?	It is the standard processor for the MicroLogix 1500 controller family.
2	Upload and save the controller program, data and communication settings before removal.	How much configurable memory does Allen-Bradley 1764-LSP provide?	Rockwell Automation lists 7.65K words shared between program and data.
3	Confirm the MicroLogix 1500 base unit and Bulletin 1769 I/O arrangement.	Which protocols are supported by Allen-Bradley 1764-LSP?	The official product record lists DF1, DH-485, Modbus RTU and ASCII communications.
4	Match the installed firmware and programming-software compatibility.	Which expansion I/O is used with Allen-Bradley 1764-LSP?	The MicroLogix 1500 system uses documented Bulletin 1769 Compact I/O modules.
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.		

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen Bradley 150-F135NBDB	View Allen Bradley 150-F135NBDB
Allen Bradley 1503VC-BMC4	View Allen Bradley 1503VC-BMC4
Allen Bradley 1503VC-BMC5	View Allen Bradley 1503VC-BMC5
Allen Bradley 1503VC-BMC5-MC1	View Allen Bradley 1503VC-BMC5-MC1
Allen Bradley 1715-TASOF8	View Allen Bradley 1715-TASOF8
Allen Bradley 1734-4IOL	View Allen Bradley 1734-4IOL

FAQ, Related Products and 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.

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

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen Bradley 1734-AENTR	View Allen Bradley 1734-AENTR
Allen Bradley 1734-IB8-D	View Allen Bradley 1734-IB8-D
Allen Bradley 1734-IR2	View Allen Bradley 1734-IR2
Allen Bradley 1756-DHRIO	View Allen Bradley 1756-DHRIO
Allen Bradley 1756-IV32	View Allen Bradley 1756-IV32
Allen Bradley 1756-L1M2	View Allen Bradley 1756-L1M2
Allen Bradley 1756-L55M12	View Allen Bradley 1756-L55M12
Allen Bradley 1756-L55M13	View Allen Bradley 1756-L55M13

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