

Allen-Bradley 1746-A4

SLC 500 four-slot modular chassis

System role

Provides the SLC 500 modular backplane and panel-mount structure for a compatible processor or I/O adapter, I/O modules and a left-side power supply.

System family

SLC 500

Chassis style

Modular

Module slots

4

Mounting type

Panel mount

Mounting tabs

4

Cooling method

Convection

Operating temperature

0 to 60 °C

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Mounting and connection flow

1. Identify

Match 1746-A4 and the approved cabinet layout.

2. Prepare

Confirm clearances and remove drilling debris.

3. Mount

Keep the four tabs flat against the enclosure panel.

4. Bond

Connect chassis to the central ground bus.

5. Link

Fit expansion cable before power supply, if used.

6. Test

Check retention, grounding and system startup.

Application context

Use as the physical chassis in an SLC 500 modular controller or distributed I/O assembly. Match processor or adapter, modules, power supply and interconnect cable to the approved system drawing.

1746-A4 installation controls

01

Confirm the complete 1746-A4 catalog marking and required processor or adapter position against the system design.

02

Isolate all chassis power before installing or removing a power supply, processor, adapter or I/O module.

03

Prevent metal chips from entering an installed chassis while drilling enclosure mounting holes.

04

Keep mounting tabs flat; use suitable shims rather than warping the chassis backplane.

05

Bond each chassis individually to the enclosure ground bus using the documented grounding method.

06

Fit the specified interconnect cable before attaching a power supply to a linked chassis.

07

Cover unoccupied module positions with the 1746-N2 slot filler.

08

Inspect ground, cable, power-supply and module seating before the controlled energization test.

Common 1746-A4 engineering questions

Which processor or adapter can be installed in Allen-Bradley 1746-A4?

Use a processor or I/O adapter supported by the installed SLC 500 modular configuration; confirm its manual and power budget before fitting modules.

Where does the power supply mount on Allen-Bradley 1746-A4?

The SLC 500 chassis power supply attaches at the left side. Select it for the total current demand of the installed processor and I/O modules.

Can Allen-Bradley 1746-A4 be part of a multiple-chassis system?

Yes. The SLC 500 system selection guide permits up to three linked chassis when the appropriate chassis interconnect cable and system design are used.

How should Allen-Bradley 1746-A4 be grounded?

Bond the chassis to the enclosure central ground bus using an individual equipment-grounding conductor, following publication 1746-IN016.

What should be checked before mounting Allen-Bradley 1746-A4?

Check enclosure clearances, hole positions, mounting hardware and a flat back-panel contact. Do not distort the chassis when tightening the mounting tabs.

How are unused slots handled in Allen-Bradley 1746-A4?

Use the 1746-N2 card slot filler for unused SLC 500 chassis openings to help keep debris out.

When should an interconnect cable be installed on Allen-Bradley 1746-A4?

Install the specified chassis interconnect cable before attaching the power supply when the approved system layout uses more than one chassis.

What verifies Allen-Bradley 1746-A4 after installation?

Check the complete catalog marking, ground bond, power-supply attachment, module seating and interconnect routing against the cabinet drawings before energizing.

Rockwell Automation source documents

Rockwell Automation 1746-A4 Product Details

<https://www.rockwellautomation.com/en-us/products/details.1746-A4.html>

SLC 500 Modular Chassis Installation Instructions, 1746-IN016C-MU-P

https://literature.rockwellautomation.com/idc/groups/literature/documents/in/1746-in016_-mu-p.pdf

SLC 500 System Selection Guide, 1747-SG001E-EN-E

https://literature.rockwellautomation.com/idc/groups/literature/documents/sg/1747-sg001_-en-p.pdf

Related SLC 500 products

Allen-Bradley 1746-OB16

<https://www.apterpower.com/Allen-Bradley/Allen-Bradley-SLC-500/1746-ob16>

Allen-Bradley 1746-ITB16

<https://www.apterpower.com/Allen-Bradley/Allen-Bradley-SLC-500/1746-itb16>

Allen-Bradley 1746-OW16

<https://www.apterpower.com/Allen-Bradley/Allen-Bradley-SLC-500/1746-ow16>

Allen-Bradley 1747-L542

<https://www.apterpower.com/Allen-Bradley/Allen-Bradley-SLC-500/1747-l542>

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Allen-Bradley 1746-OBP16

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Allen-Bradley 1747-SN

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Allen-Bradley 1747-L553

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