

# 1746-A7

## 7-Slot Chassis

Allen-Bradley 1746-A7 is a seven-slot SLC 500 modular chassis that provides the mechanical mounting and backplane connection for the processor or communication adapter, power supply and installed SLC modules.

| IDENTITY       | VERIFIED VALUE |
|----------------|----------------|
| Manufacturer   | Allen-Bradley  |
| Complete model | 1746-A7        |
| Product role   | 7-Slot Chassis |
| System family  | SLC 500        |

### Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

#### APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)

WEBSITE [www.apterpower.com](http://www.apterpower.com)



1746-A7

## Technical Specifications

| PARAMETER                     | VERIFIED VALUE  |
|-------------------------------|-----------------|
| Catalog number                | 1746-A7         |
| Product family                | SLC 500         |
| Hardware style                | Modular chassis |
| Module slots                  | 7               |
| Mounting                      | Panel mount     |
| Mounting tabs                 | 4               |
| Backplane current at 5.1 V DC | 10 A maximum    |

| PARAMETER                    | VERIFIED VALUE                            |
|------------------------------|-------------------------------------------|
| Backplane current at 24 V DC | 2.88 A maximum                            |
| Operating temperature        | 0 to 60 degrees C                         |
| Storage temperature          | -40 to 85 degrees C                       |
| Relative humidity            | 5 to 95 percent, noncondensing            |
| Lifecycle status             | Discontinued March 31, 2024               |
| Planned replacement          | No Rockwell Automation replacement listed |

### Engineering boundary

Match the complete 1746-A7 chassis identity, mount it with all four chassis tabs and verify every installed module, power supply and backplane connection before commissioning.

# Functions and Applications

|                                                                                                             |                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Seven-slot backplane</b></p> <p>Accepts a seven-position SLC modular hardware arrangement.</p>        | <p><b>Modular system support</b></p> <p>Hosts the documented processor or communication adapter, power supply and SLC modules.</p>   |
| <p><b>Four-tab mounting</b></p> <p>Uses four chassis mounting tabs for a controlled panel installation.</p> | <p><b>Backplane distribution</b></p> <p>Distributes the documented 5.1 V DC and 24 V DC backplane capacity to installed modules.</p> |

## Common Applications

| APPLICATION                    | ENGINEERING CONTEXT                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------|
| SLC 500 control cabinet        | Provides the base for a seven-slot modular SLC 500 station.                              |
| Installed-base chassis renewal | Supports controlled replacement when the exact slot and power arrangement is retained.   |
| Remote I/O station             | Hosts an approved communication adapter and compatible I/O modules.                      |
| Maintenance rebuild            | Provides a documented backplane and mechanical reference for restoring a legacy station. |

**Controlled acceptance duty**

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

## Engineering Precautions

| NO. | PRECAUTION                                                                                    |
|-----|-----------------------------------------------------------------------------------------------|
| 1   | Verify the complete 1746-A7 marking before work.                                              |
| 2   | De-energize the complete SLC 500 station before removing modules or the chassis.              |
| 3   | Record the slot assignment and connector location of every installed module.                  |
| 4   | Use all four chassis mounting tabs and approved mounting hardware.                            |
| 5   | Confirm power-supply and total backplane-current compatibility.                               |
| 6   | Keep the chassis free from conductive debris and cabinet contamination.                       |
| 7   | Inspect backplane connectors before reinstalling modules.                                     |
| 8   | Restore modules to their recorded slots and complete processor, I/O and communication checks. |

## Model-Specific FAQ - Part 1

| QUESTION                                              | ANSWER                                                                                                           |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| What is Allen-Bradley 1746-A7?                        | 1746-A7 is a seven-slot modular chassis for the SLC 500 system.                                                  |
| How many slots does Allen-Bradley 1746-A7 provide?    | It provides seven module slots.                                                                                  |
| How is Allen-Bradley 1746-A7 mounted?                 | It is a panel-mounted chassis with four mounting tabs.                                                           |
| Which hardware is installed in Allen-Bradley 1746-A7? | The chassis supports the documented processor or communication adapter, power supply and compatible SLC modules. |

## Related Products

| MODEL                   | APTER POWER PAGE                             |
|-------------------------|----------------------------------------------|
| Allen-Bradley 1746-HS   | <a href="#">View Allen-Bradley 1746-HS</a>   |
| Allen-Bradley 1746-IA16 | <a href="#">View Allen-Bradley 1746-IA16</a> |
| Allen-Bradley 1746-IB16 | <a href="#">View Allen-Bradley 1746-IB16</a> |
| Allen-Bradley 1746-IH16 | <a href="#">View Allen-Bradley 1746-IH16</a> |

## Model-Specific FAQ - Part 2

| QUESTION                                                                     | ANSWER                                                                                                                                    |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| What 5.1 V DC backplane capacity is listed for Allen-Bradley 1746-A7?        | The installation instruction lists 10 A maximum at 5.1 V DC.                                                                              |
| What 24 V DC backplane capacity is listed for Allen-Bradley 1746-A7?         | The installation instruction lists 2.88 A maximum at 24 V DC.                                                                             |
| Can Allen-Bradley 1746-A7 modules be moved without recording slot positions? | No. Record every module and slot before removal so the controlled hardware configuration can be restored.                                 |
| What confirms Allen-Bradley 1746-A7 commissioning?                           | The mounting, slot arrangement, power supply, backplane current, processor, communications and I/O checks must match the approved record. |

## Related Products and Release

| MODEL                    | APTER POWER PAGE                              |
|--------------------------|-----------------------------------------------|
| Allen-Bradley 1746-IM8   | <a href="#">View Allen-Bradley 1746-IM8</a>   |
| Allen-Bradley 1746-IO12  | <a href="#">View Allen-Bradley 1746-IO12</a>  |
| Allen-Bradley 1746-IO8   | <a href="#">View Allen-Bradley 1746-IO8</a>   |
| Allen-Bradley 1746-ITB16 | <a href="#">View Allen-Bradley 1746-ITB16</a> |

### MANUFACTURER SOURCE RECORDS

1. Rockwell Automation 1746 Chassis Installation Instructions, publication 1746-IN016C-MU-P
2. Rockwell Automation product lifecycle record for 1746-A7

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