# Siemens 16180-500 PSMBXNAN

## Modulbus Expander

Legacy Siemens Moore Modulbus Expander identified by the combined 16180-500 PSMBXNAN marking for APACS+ expansion service.

| 01 | 02 | 03 | 04 |
| --- | --- | --- | --- |
| Modulbus expansion role | APACS+ system context | Combined marking preserved | Legacy distributed I/O service |

## System position

| | | | |
| --- | --- | --- | --- |
| APACS+ controller | Primary Modulbus | 16180-500 PSMBXNAN | Expanded rack segment |

## Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

02 / CAPABILITY MAP

# Engineering domains and architecture

| | |
|---|---|
| Manufacturer | Siemens / Moore |
| Part number | 16180-500 |
| Model marking | PSMBXNAN |
| Documented type | Modulbus Expander |

| | |
|---|---|
| System context | Legacy distributed control |
| Detailed limits | Verify from the exact unit documentation |

## Interface architecture

| Controller-side Modulbus | Expansion-side bus | Rack power | Status/service points |
|---|---|---|---|
| Upstream system-bus connection | Connection to the documented downstream segment | Verify supply from the installed assembly | Interpret using the exact MBX documentation |

03 / INTEGRATION AND APPLICATIONS

# Use cases with controlled scope

| Rack Expansion | Remote I/O Service | Legacy DCS Repair | Network Survey |
|---|---|---|---|
| Maintains the installed Modulbus expansion path. | Supports the recorded connection to a downstream I/O segment. | Exact combined-code spare for lifecycle maintenance. | Provides a defined point for documenting bus topology before migration. |

## INTEGRATION CHECKPOINTS

| Identity | Host system | Configuration | Acceptance |
|---|---|---|---|
| Siemens 16180-500 PSMBXNAN is preserved in full. | Rack, slot and surrounding hardware are verified. | Project, firmware and settings are recorded. | Functional evidence is captured before release. |

## System relationship

| | | | |
|---|---|---|---|
| APACS+ controller | Primary Modulbus | 16180-500 PSMBXNAN | Expanded rack segment |

# Decision matrix

| Question | Answer |
| --- | --- |
| What is Siemens 16180-500 PSMBXNAN? | It is identified as a legacy Modulbus Expander used in a distributed-control expansion path. |
| Why are both codes retained for Siemens 16180-500 PSMBXNAN? | They form the user-supplied complete identity and help avoid confusion with other MBX family variants. |
| Can Siemens 16180-500 PSMBXNAN be called 39MBXNAN? | Not without direct nameplate or ordering-code evidence; the supplied PSMBXNAN marking is preserved unchanged. |
| What should be documented before replacing Siemens 16180-500 PSMBXNAN? | Record the topology, rack positions, cable direction, shielding, grounding and downstream I/O assignments. |
| How is Siemens 16180-500 PSMBXNAN commissioned? | Restore the documented bus path, then verify communication and each downstream I/O segment. |

## Eight release precautions

| | | | |
| --- | --- | --- | --- |
| **1** Preserve the double-space identity 16180-500 PSMBXNAN in records. | **2** Do not normalize PSMBXNAN to a different family code. | **3** Archive the bus topology and rack assignments. | **4** Isolate affected control power and use ESD precautions. |
| **5** Label upstream and downstream connections before removal. | **6** Do not apply unverified data-rate or distance values. | **7** Check shielding, grounding and connector condition. | **8** Verify bus communication and all downstream I/O after replacement. |

# Product verification and support

## Apter Power verification record

| | |
|---|---|
| **Model identity** | Keep the complete Siemens model code and every suffix in purchasing, installation and acceptance records. |
| **Verification boundary** | Confirm the physical nameplate, installed position and revision-controlled project documents before field work. |
| **Apter Power support** | Use the contact details and Apter Power website links in this document for product and sourcing support. |

| Related Apter Power references | Scope note |
|---|---|
| Siemens 39SDM024DCCBN 16101-174/8 | Portfolio reference only; verify compatibility independently. |
| Siemens 16101-174/10 | Portfolio reference only; verify compatibility independently. |

| | | |
|---|---|---|
| | Apter Power technical and sourcing support<br>sales7@apterpower.com +86 180 3017 5807 www.apterpower.com<br>Scan for the Apter Power contact page. | Model record Siemens 16180-500 PSMBXNAN Modulbus Expander Verify the complete nameplate before installation. |