# Siemens 16180-500 PSMBXNAN

## Modulbus Expander

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

| IDENTITY SNAPSHOT | |
|---|---|
| **H1**<br>Modulbus expansion role | **H2**<br>APACS+ system context |
| **H3**<br>Combined marking preserved | **H4**<br>Legacy distributed I/O service |

## System position

| | |
|---|---|
| 1 | APACS+ controller |
| 2 | Primary Modulbus |
| 3 | 16180-500 PSMBXNAN |
| 4 | Expanded rack segment |

## Document boundary

This dossier uses exact-model evidence and clearly identified family context. Unsupported values are intentionally left for nameplate, project-record or revision-manual verification.

# Architecture and interface control

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

| SYSTEM FLOW | |
|---|---|
| 1 | APACS+ controller |
| 2 | Primary Modulbus |
| 3 | 16180-500 PSMBXNAN |
| 4 | Expanded rack segment |

## Interface map

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

## Engineering rule

Use the full Siemens 16180-500 PSMBXNAN identity in drawings, spares records and acceptance evidence. A similar family code is not proof of interchangeability.

03 / TECHNICAL DATA

# Verified engineering data

Values below are limited to the reviewed exact-model or directly applicable manufacturer-family evidence.

| | |
|---|---|
| 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 |

## CHANGE CONTROL

### Record

Capture the complete nameplate, revision and installed position.

### Compare

Check replacement hardware against project and service records.

### Protect

Apply the documented power-isolation and ESD procedure.

### Prove

Complete a model-specific functional test before release.

# Service logic

Use evidence in sequence; do not skip directly from a fault symptom to part substitution.

| | |
|---|---|
| 1 | Capture symptoms and existing status |
| 2 | Verify power, wiring, slot and surrounding system |
| 3 | Test 16180-500 PSMBXNAN against the exact service procedure |
| 4 | Replace only after the module is isolated as the cause |
| 5 | Commission and archive results |

## Model-specific precautions

| | |
|---|---|
| **1**<br>Preserve the double-space identity 16180-500 PSMBXNAN in records. | **2**<br>Do not normalize PSMBXNAN to a different family code. |
| **3**<br>Archive the bus topology and rack assignments. | **4**<br>Isolate affected control power and use ESD precautions. |
| **5**<br>Label upstream and downstream connections before removal. | **6**<br>Do not apply unverified data-rate or distance values. |

# Decisions and Apter Power support

### 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.

## 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. |

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