Siemens 6ES7195-7HB00-0XA0

01 Active Backplane Bus Module

Siemens 6ES7195-7HB00-0XA0 maintains the station backplane arrangement beneath removable I/O modules. Its role is mechanical and bus integration; field-signal characteristics are determined by the attached I/O modules and configured interface.

1. **ET 200M interface**
2. **Active bus rail**
3. **BM 2 x 40**
4. **Assigned S7-300 I/O**

Physical and functional arrangement

The active bus module is used with the ET 200M rail intended for module replacement during operation. It joins the adjacent backplane sections and supports the intended I/O layout. A standard rail and ordinary module bus connectors do not establish the same replacement arrangement.

Signal path and configuration

Unused positions require backplane covers, and the end of the last bus module requires the appropriate bus-module cover. These details preserve the intended assembly when one of the two positions is unused or a module is temporarily removed.

Application boundary

Online replacement depends on the complete interface, module and controller configuration. The process must tolerate the affected I/O state during maintenance. Confirm diagnostics and module recovery through the station rather than assuming an uninterrupted process simply because the backplane remains assembled.

BM 2 x 40 accommodates one or two 40 mm S7-300 modules. Hot replacement is a configured ET 200M station function, not an unconditional property of any attached module.

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02 Technical data and engineering limits

Module positions	1 or 2 attached S7-300 modules
Compatible I/O width class	40 mm per position
Backplane arrangement	Active ET 200M bus
Associated cover set	6ES7195-1JA00-0XA0
Required rail type	ET 200M rail for module change during operation

Additional interface data

Single occupied position	Cover the unused backplane position
Last bus module	Fit the bus-module end cover
Two positions occupied	Verify both I/O identities and slot assignments
Redundant station	Requires the appropriate IM pair and BM IM/IM arrangement
Attached-module limit	Determined by the interface and enabled station functions
Field signal ratings	Belong to the attached I/O module, not this carrier

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03 Application map and integration boundaries

01 Serviceable distributed I/O

Support compatible I/O in an engineered ET 200M active-backplane station.

02 Paired module positions

Arrange two suitable 40 mm modules on one bus section.

03 Partially occupied stations

Retain a covered spare position for an approved station layout.

04 Existing backplane repair

Restore the original module order and bus-section continuity.

Mechanical prerequisite

The active-bus rail and covers are part of the intended installation, not optional substitutes for ordinary module mounting.

System function

Module change during operation requires the correct ET 200M configuration and a controlled process response.

Carrier scope

Do not assign input voltage, output current or channel resolution from an attached I/O module to this bus carrier.

Configuration scope: Match BM 2 x 40, active-bus rail, module positions and end-cover arrangement. An ordinary bus connector is not the same backplane assembly.

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04 Technical questions that affect operation

Can 6ES7195-7HB00-0XA0 be fitted to an ordinary rail for online module replacement?

Use the rail intended for the active ET 200M backplane. The ordinary rail arrangement does not establish the same module-change function.

What is required when only one position on 6ES7195-7HB00-0XA0 is occupied?

Close the unused backplane position with its cover and preserve the correct end-of-station cover arrangement.

Does 6ES7195-7HB00-0XA0 guarantee uninterrupted process outputs during removal of an I/O module?

No. The affected module and controller configuration determine the I/O response. Plan the process state and diagnostics before replacement.

Why should slot order be retained when servicing 6ES7195-7HB00-0XA0?

The interface configuration associates physical positions with I/O functions. Moving modules can create configuration mismatch or incorrect application mapping.

How is the last active bus section different when using 6ES7195-7HB00-0XA0?

It requires the appropriate bus-module end cover in addition to covers for unused module positions.

Can an 80 mm module be installed across the two positions of 6ES7195-7HB00-0XA0?

The BM 2 x 40 arrangement is for one or two 40 mm modules. Select the dedicated 1 x 80 bus module when the attached module requires that width class.

What should be checked after an I/O module is reinserted on 6ES7195-7HB00-0XA0?

Confirm mechanical engagement, station diagnostics, restored channel data and the intended process response. Backplane continuity alone is insufficient.

Does a redundant interface remove the need to check 6ES7195-7HB00-0XA0 wiring and configuration?

No. Redundancy addresses the interface arrangement; the physical I/O positions, covers and controller configuration must still agree.

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05 Selection, service planning and related equipment

Match the installed arrangement

Match the complete Siemens 6ES7195-7HB00-0XA0 marking and installed configuration. Confirm the bus-module order number, both positions and rail engagement.

Support and migration

The current production and manufacturer-support stage for this exact execution is unconfirmed. Match BM 2 x 40, active-bus rail, module positions and end-cover arrangement. An ordinary bus connector is not the same backplane assembly.

Equipment boundary

Confirm the active bus module and covers only when itemized. Companion hardware and accessories are included only when itemized; the function of the complete installed arrangement depends on the correct combination.

Engineering review before intervention

Record the station arrangement	List the interface, active bus sections and attached I/O in physical order. Identify unused positions and the end cover. Establish the approved maintenance state for all affected channels.
Check rail and bus engagement	Inspect the active-backplane rail and the joining surfaces of adjacent bus sections. Seat the bus module without forcing a misaligned connector and confirm the mechanical position before fitting I/O.

Related equipment navigation

Siemens 6ES7953-8LF11-0AA0

Siemens 6ES7322-1BL00-0AA0

Siemens 6ES7331-7KF02-0AB0

Related references support separate application assessment and do not imply replacement compatibility. Technical basis: Siemens ET 200M Operating Instructions, EWA-4NEB780600602-08.