

INDUSTRIAL AUTOMATION PRODUCT

6GK5205-3BB00-2AB2

SCALANCE XB205-3 Managed Layer 2 Industrial Ethernet Switch

Siemens 6GK5205-3BB00-2AB2 is a SCALANCE XB205-3 managed Layer 2 Industrial Ethernet switch with five 10/100 Mbit/s RJ45 ports and three multimode ST fiber ports. It is configured for PROFINET by default and accepts redundant 24 V DC power for DIN-rail installations.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens SCALANCE XB-200 managed
Part number	6GK5205-3BB00-2AB2
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6GK5205-3BB00-2AB2 only in the documented Siemens SCALANCE XB-200 managed position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and managed Layer 2 switching between copper and multimode fiber segments in a PROFINET industrial network before service release.

System Role and Architecture

Siemens 6GK5205-3BB00-2AB2 is a SCALANCE XB205-3 managed Layer 2 Industrial Ethernet switch with five 10/100 Mbit/s RJ45 ports and three multimode ST fiber ports. It is configured for PROFINET by default and accepts redundant 24 V DC power for DIN-rail installations.

FUNCTION 1
Five 10/100 Mbit/s RJ45 ports

FUNCTION 2
Three multimode ST 100BaseFX ports

FUNCTION 3
PROFINET Class B managed switching

FUNCTION 4
Redundant 24 V DC supply input

RELATED APTER POWER PAGES		
1 Siemens 6SL3300-1AH32-5BA0	2 Siemens 6SE7041-8GK85-0LA0	3 Siemens 6SE7041-8EK85-1MA0
4 Siemens 6SE7037-0EJ84-1JC2	5 Siemens 6SE7036-1EE85-1HA0	6 Siemens C98043-A1682-L1
7 Siemens A5E36717803	8 Siemens A5E36717808	9 Siemens A5E00297630

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Siemens SCALANCE XB-200 managed
02	Matched Siemens host rack, controller or industrial network
03	Documented power, communication, synchronization and grounding interfaces
04	Approved engineering project, managed configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Siemens SCALANCE XB-200 managed
Interface role	managed Layer 2 switching between copper and multimode fiber segments in a PROFINET industrial
Field / power context	documented Siemens industrial control or network cabinet position
Commissioning evidence	Identity, interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the exact 6GK5205-3BB00-2AB2 marking and documented SCALANCE XB205-3 Managed Layer 2 Industrial Ethernet Switch execution.
- 2

Place the controller, network and affected process in the approved maintenance state.
- 3

Isolate power and field interfaces; prove the safe state before disconnecting hardware.
- 4

Record every port, terminal, module position, configuration file and active diagnostic.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	SCALANCE XB205-3	Maximum VLAN count	257
Switch class	Managed Layer 2 Industrial Ethernet switch	Supply design	Redundant 24 V DC input
Copper network ports	5 x RJ45	Supply voltage range	19.2 to 28.8 V DC
Copper transfer rate	10 / 100 Mbit/s	Maximum current consumption	0.30 A
Optical ports	3 x multimode ST (BFOC)	Rated power loss	7.2 W
Optical transmission	100BaseFX	Power connection	6-pole terminal block
Console interface	1 x RJ11	Operating temperature	0 to 60 degC
Management connection	RJ45	Storage and transport temperature	-40 to 70 degC
Default industrial protocol	PROFINET	Operating humidity	95% maximum at 25 degC, non-condensing
PROFINET conformity class	Class B	Degree of protection	IP20
PROFINET network load class	Class III	Installation	35 mm DIN-rail mounting
Maximum Ethernet telegram length	1632 bytes	Security certification	IEC 62443-4-2 certified

RELATED PRODUCT PAGES

- 1 Siemens 6SL3300-1AH32-5BA0
- 2 Siemens 6SE7041-8GK85-0LA0
- 3 Siemens 6SE7041-8EK85-1MA0

ENGINEERING BOUNDARY

Confirm 6GK5205-3BB00-2AB2, its exact Siemens SCALANCE XB-200 managed host, power source, installed position, interfaces, firmware or project configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1 Confirm the exact 6GK5205-3BB00-2AB2 marking and documented SCALANCE XB205-3 Managed Layer 2 Industrial Ethernet Switch
- 2 Place the controller, network and affected process in the approved maintenance state.
- 3 Isolate power and field interfaces; prove the safe state before disconnecting hardware.
- 4 Record every port, terminal, module position, configuration file and active diagnostic.

Applications and Engineering Context

PROFINET cell networking

Connects the documented controller and field devices with managed topology and port diagnostics.

Copper-to-fiber network handoff

Combines five RJ45 connections with three multimode ST 100BaseFX paths.

Managed VLAN segmentation

Retains the approved port-based VLAN plan for an industrial automation cell.

Control-cabinet network replacement

Restores redundant power, device naming, port assignments and controlled communication tests.

TECHNICAL NOTE

Install 6GK5205-3BB00-2AB2 only in the documented Siemens SCALANCE XB-200 managed position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and managed Layer 2 switching between copper and multimode fiber segments in a PROFINET industrial network before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6GK5205-3BB00-2AB2 recorded
Host / carrier	Siemens SCALANCE XB-200 managed
Physical interface	Installed ports, terminals and communications matched to the as-found record
Configuration	Approved Siemens hardware and network configuration restored
Functional proof	Controlled test confirms managed Layer 2 switching between copper and multimode fiber segments in a PROFINET industrial network

IMPORTANT NOTICE

Confirm 6GK5205-3BB00-2AB2, its exact Siemens SCALANCE XB-200 managed host, power source, installed position, interfaces, firmware or project configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6SL3300-1AH32-5BA0

View Siemens 6SL3300-1AH32-5BA0 page

2

Siemens 6SE7041-8GK85-0LA0

View Siemens 6SE7041-8GK85-0LA0 page

3

Siemens 6SE7041-8EK85-1MA0

View Siemens 6SE7041-8EK85-1MA0 page

4

Siemens 6SE7037-0EJ84-1JC2

View Siemens 6SE7037-0EJ84-1JC2 page

5

Siemens 6SE7036-1EE85-1HA0

View Siemens 6SE7036-1EE85-1HA0 page

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Siemens C98043-A1682-L1

View Siemens C98043-A1682-L1 page

7

Siemens A5E36717803

View Siemens A5E36717803 page

8

Siemens A5E36717808

View Siemens A5E36717808 page

9

Siemens A5E00297630

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MANUFACTURER SOURCE RECORD

Siemens Data Sheet 6GK5205-3BB00-2AB2, dated 20 February 2026 | Siemens official exact-article data sheet, verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.