

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

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
Siemens SCALANCE XB-200

PART
6GK5205-3BB00-2AB2

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

Siemens 6GK5205-3BB00-2AB2 provides managed Layer 2 switching between copper and multimode fiber segments in a PROFINET industrial network for a documented Siemens SCALANCE XB-200 managed



Five 10/100 Mbit/s RJ45 ports



Three multimode ST 100BaseFX ports



PROFINET Class B managed switching



Redundant 24 V DC supply input

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SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected network or control function under controlled conditions.

TECHNICAL DATA

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

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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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

- 1 Confirm the exact 6GK5205-3BB00-2AB2 marking and documented SCALANCE XB205-3 Managed Layer 2
- 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.
- 5 Verify the exact supply, interface and environmental limits in the Siemens data sheet.
- 6 Restore grounding, shielding, network or backplane interfaces and the approved configuration.
- 7 Energize under control and review all device, link, rack and system diagnostics.
- 8 Complete a controlled functional test of managed Layer 2 switching between copper and multimode fiber

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ENGINEER FAQ

Q1

Why must Siemens 6GK5205-3BB00-2AB2 use the documented PROFINET profile instead of a sibling EtherNet/IP profile?

6GK5205-3BB00-2AB2 is the PROFINET-default SCALANCE XB205-3 execution; do not load an EtherNet/IP sibling configuration.

Q2

What copper-and-fiber port mix is built into 6GK5205-3BB00-2AB2?

The exact switch provides five 10/100 Mbit/s RJ45 ports and three multimode ST (BFOC) ports operating as 100BaseFX interfaces.

Q3

Which PROFINET conformity and network-load classes apply to 6GK5205-3BB00-2AB2?

The data sheet specifies PROFINET conformity class B and network load class III.

Q4

What supply range and maximum current demand must be allowed for 6GK5205-3BB00-2AB2?

Provide 24 V DC through the six-pole terminal block, remain within 19.2 to 28.8 V DC and allow for 0.30 A maximum current consumption.

Q5

Which telegram-length and VLAN limits affect the saved configuration of 6GK5205-3BB00-2AB2?

Preserve the managed port map, maximum 1632-byte Ethernet telegram setting and VLAN plan, with up to 257 VLANs supported by the exact data sheet.

Q6

How are the RJ11 console and RJ45 management connections used on 6GK5205-3BB00-2AB2?

The device provides one RJ11 operator-console connection and an RJ45 management connection; use only the documented service arrangement.

Q7

Which DIN-rail, IP20 and temperature conditions govern installation of 6GK5205-3BB00-2AB2?

The IP20 switch is DIN-rail mounted for 0 to 60 degC operation and up to 95% relative humidity at 25 degC without condensation.

Q8

Which end-to-end PROFINET checks confirm successful recommissioning of 6GK5205-3BB00-2AB2?

Verify the exact article identity, redundant power, all eight network links, device names and topology, port diagnostics, controller communication and the intended process response.

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