

6GK5213-3BB00-2TB2

SCALANCE XB213-3 Managed Layer 2 Industrial Ethernet Switch

Siemens 6GK5213-3BB00-2TB2 is a SCALANCE XB213-3 managed Layer 2 Industrial Ethernet switch with thirteen 10/100 Mbit/s RJ45 ports and three multimode ST fiber ports. It provides an

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
Siemens SCALANCE XB-200

PART
6GK5213-3BB00-2TB2

DOCUMENT STATUS
Controlled engineering copy

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PRODUCT OVERVIEW

Siemens 6GK5213-3BB00-2TB2 provides managed Layer 2 switching between copper and multimode fiber segments in an EtherNet/IP industrial network for a documented Siemens SCALANCE XB-200 managed

-  Thirteen 10/100 Mbit/s RJ45 ports
-  Three multimode ST 100BaseFX ports
-  EtherNet/IP-default managed switching
-  Redundant 24 V DC supply input

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 Siemens 6RY1803-0DB02	 Siemens 6SL3200-0SP06-0AA0	 Siemens 6SL3985-6TM00-0AA0
 Siemens 6SL3120-2TE21-8AD0	 Siemens 6SE7041-8EK85-0LA0	 Siemens 6SE7035-1EJ84-1JC2
 Siemens 6SE7090-0XX84-1CE0	 Siemens 6SE7031-7HG84-1JC2	 Siemens 6SE7031-7HG84-1JC1

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
Product type	SCALANCE XB213-3
Switch class	Managed Layer 2 Industrial Ethernet switch
Copper network ports	13 x RJ45
Copper transfer rate	10 / 100 Mbit/s
Optical ports	3 x multimode ST (BFOC)
Optical transmission	100BaseFX
Console interface	1 x RJ11
Default industrial protocol	EtherNet/IP
Supply design	Redundant 24 V DC input
Supply voltage range	19.2 to 28.8 V DC

PARAMETER	VALUE
Maximum current consumption	0.41 A
Rated power loss	9.8 W
Power connection	6-pole terminal block
Operating temperature	0 to 60 degC
Storage and transport temperature	-40 to 70 degC
Operating humidity	95% maximum at 25 degC, non-condensing
Degree of protection	IP20
Installation	35 mm DIN-rail mounting
Security certification	IEC 62443-4-2 certified

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TECHNICAL NOTE

Install 6GK5213-3BB00-2TB2 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 an EtherNet/IP industrial network before service release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

EtherNet/IP machine network aggregation

Connects controller, HMI and field-device copper links while retaining managed diagnostics.

Copper-to-multimode fiber transition

Extends plant segments through three ST 100BaseFX links from one managed switch.

Redundant control-cabinet networking

Uses the dual-feed 24 V DC terminal arrangement to maintain the documented supply architecture.

Industrial network commissioning

Supports controlled port-map restoration, link diagnosis and managed network acceptance.

PRODUCT PRECAUTIONS

- 1 Confirm the exact 6GK5213-3BB00-2TB2 marking and documented SCALANCE XB213-3 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 What network role does Siemens 6GK5213-3BB00-2TB2 perform in a SCALANCE XB-200 installation?

It is the EtherNet/IP-default SCALANCE XB213-3 managed Layer 2 switch execution; confirm the full 6GK5213-3BB00-2TB2 article number before loading configuration.

Q2 How are the thirteen RJ45 and three ST fiber channels arranged on 6GK5213-3BB00-2TB2?

The switch provides thirteen 10/100 Mbit/s RJ45 ports and three multimode ST (BFOC) ports using 100BaseFX.

Q3 Which redundant 24 V DC supply range is specified for 6GK5213-3BB00-2TB2?

Use the redundant 24 V DC input through the six-pole terminal block and keep the applied voltage within 19.2 to 28.8 V DC.

Q4 What current-consumption and power-loss allowance is required for 6GK5213-3BB00-2TB2?

The exact data sheet specifies 0.41 A maximum current consumption and 9.8 W rated power loss.

Q5 Which local console interface is provided on 6GK5213-3BB00-2TB2?

The documented local console interface is one RJ11 connection; preserve the service cable and recorded management settings.

Q6 What cabinet environmental limits apply to 6GK5213-3BB00-2TB2?

Operate from 0 to 60 degC, keep humidity at or below 95% at 25 degC without condensation, and install the IP20 device inside suitable protection.

Q7 Which managed-network records must be preserved before replacing 6GK5213-3BB00-2TB2?

Record the active port map, copper and fiber assignments, VLAN and management configuration, redundant supply wiring, alarms and network diagnostics before removal.

Q8 Which link, redundant-power and EtherNet/IP checks release 6GK5213-3BB00-2TB2 to service?

Restore the recorded configuration, verify every copper and fiber link, confirm redundant power and diagnostics, then prove controller and field-device communication under controlled conditions.

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SOURCE Siemens Data Sheet 6GK5213-3BB00-2TB2, dated 3 February 2026 | Siemens official exact-article data sheet, verified 28 September 2026

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