

Siemens 6GK5213-3BB00-2TB2

Managed Industrial Ethernet Switch

Product scope

- Combines thirteen copper and three multimode fiber Fast Ethernet ports.
- Supports managed Layer 2 segmentation, redundancy and diagnostic functions.
- Accepts dual 24 V DC feeds for power redundancy in industrial cabinets.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Siemens 6GK5213-3BB00-2TB2

Managed Industrial Ethernet Switch

Product overview

Siemens 6GK5213-3BB00-2TB2 is a SCALANCE XB213-3 managed Layer 2 switch with thirteen 10/100 RJ45 ports and three multimode ST fiber ports. It provides managed industrial Ethernet functions with redundant 24 V DC supply inputs.

6GK5213-3BB00-2TB2 combines thirteen Fast Ethernet copper connections with three optical multimode ports in a compact managed switch. The BFOC/ST fiber interfaces extend network segments where electrical isolation or longer plant links are required.

Layer 2 management provides VLAN, redundancy, diagnostics and access-control functions for automation cells. The switch supports industrial protocols and browser or network-management access while remaining focused on 10/100 Mbit/s edge connectivity.

Fiber type, connector style, VLAN plan, redundancy role and power-feed separation must match the existing topology. Cybersecurity settings should be backed up before replacement so the new device does not join the plant with default credentials or addresses.

Technical specifications

Copper ports	13 x 10/100 Mbit/s RJ45
Optical ports	3 x 100 Mbit/s multimode BFOC/ST
Console interface	1 serial console port
Total Ethernet ports	16
Rated supply voltage	24 V DC
Permissible supply range	19.2 to 28.8 V DC
Redundant supply inputs	Supported
Maximum current consumption	0.41 A
Power loss	9.8 W
Operating temperature	0 to 60 °C
Storage and transport temperature	-40 to 70 °C
Relative humidity	Up to 95%, non-condensing
Degree of protection	IP20
Width	120 mm
Height	117 mm
Depth	109 mm
Net weight	Approximately 0.5 kg
Switching layer	Managed Layer 2
Default industrial profile	EtherNet/IP
Security standard	IEC 62443-4-2 product capability

6GK5213-3BB00-2TB2 function and operating principle

Ordered configuration

The ordered XB213-3 execution uses ST-style multimode optical interfaces alongside RJ45 ports.

System role

It switches cell traffic while management functions control paths, segmentation and recovery behavior.

Selection and installation

A replacement must reproduce the saved network configuration and the exact optical media used on site.

Functional path

- Combines thirteen copper and three multimode fiber Fast Ethernet ports.
- Supports managed Layer 2 segmentation, redundancy and diagnostic functions.
- Accepts dual 24 V DC feeds for power redundancy in industrial cabinets.

Application scenarios

- Automation cells can aggregate controllers, HMIs and drives while fiber uplinks cross electrically noisy areas.
- Redundant ring or line topologies use the managed recovery functions to improve plant-network availability.
- Segmented production networks apply VLAN and access controls at the industrial edge.

6GK5213-3BB00-2TB2 engineering checks

Communication

- Thirteen RJ45 ports provide 10/100 Mbit/s electrical Ethernet connections.
- Three 100 Mbit/s multimode optical ports use BFOC/ST connectors.
- A separate console interface supports local commissioning and recovery access.

Diagnostics

- Managed port statistics and status information support link and traffic fault isolation.
- Network alarms can identify loss of a configured path or redundancy partner.
- Configuration records preserve VLAN, port and management settings for maintenance.

Standards

- Management access should use controlled credentials and the documented industrial security functions.
- Unused services and ports can be restricted according to the plant cybersecurity design.
- IEC 62443-4-2 capabilities support integration into a defense-in-depth network architecture.

Critical technical note

Back up the active configuration before replacing 6GK5213-3BB00-2TB2; default network settings can disrupt VLAN, redundancy and access-control behavior.

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