

6GK1105-2AB10

OSM TP62 Industrial Ethernet Optical Switch Module

Siemens 6GK1105-2AB10 is the osm tp62 industrial ethernet optical switch module for SIMATIC NET Industrial Ethernet OSM. It provides managed optical-ring and twisted-pair Ethernet switching with

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SIMATIC NET Industrial Ethernet

PART
6GK1105-2AB10

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

Siemens 6GK1105-2AB10 provides managed optical-ring and twisted-pair Ethernet switching with digital inputs in a documented SIMATIC NET Industrial Ethernet OSM installation.



Product designation: Industrial Ethernet OSM TP62 with digital inputs



Electrical ports: 6 x 10/100 Mbit/s RJ45



Electrical port functions: Auto-negotiation and auto-crossover



Optical ports: 2 x 100 Mbit/s full-duplex BFOC

RELATED APTER POWER PAGES

1

Siemens 6GK7542-5DX00-0XE0

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Siemens 6GK5324-0GG00-1AR2

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Siemens 6GK5206-2BS00-2AC2

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Siemens 6GK1500-0FC10

5

Siemens 6GK1571-0BA00-0AA0

6

Siemens 6GK1503-3CB00

7

Siemens 6GK7343-1EX30-0XE0

8

Siemens 6GK5204-2BB10-2AA3

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
OSM TP62 Industrial Ethernet Optical Switch Module	SIMATIC NET Industrial Ethernet OSM
Documented power, signal and communication interfaces	Approved engineering configuration and acceptance record

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 control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	Industrial Ethernet OSM TP62 with digital inputs
Electrical ports	6 x 10/100 Mbit/s RJ45
Electrical port functions	Auto-negotiation and auto-crossover
Optical ports	2 x 100 Mbit/s full-duplex BFOC
Optical fiber	Multimode graded-index
Maximum optical distance	3000 m between OSM units
Maximum ring size	50 OSM units / 150 km

PARAMETER	VALUE
Digital inputs	8 x 24 V DC
Digital input signal 1	+13 to +30 V
Digital input signal 0	-30 to +3 V
Digital input current	8 mA maximum
Supply	Two redundant 24 V DC feeds, 18 to 32 V DC
Management	SNMP, event log and configurable e-mail/trap

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8 Siemens 6GK5204-2BB10-2AA3

TECHNICAL NOTE

Use 6GK1105-2AB10 only in the documented SIMATIC NET Industrial Ethernet OSM position. Preserve the exact connectors, power, signal or network configuration and verify managed optical-ring and twisted-pair Ethernet switching with digital inputs during controlled commissioning.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

SIMATIC NET Industrial Ethernet OSM installation

Uses 6GK1105-2AB10 for managed optical-ring and twisted-pair Ethernet switching with digital inputs in the

Controlled replacement

Restores the exact 6GK1105-2AB10 identity, interfaces and configuration before energization.

Commissioning verification

Checks 6GK1105-2AB10 diagnostics and the affected function under controlled conditions.

Lifecycle maintenance

Preserves the approved SIMATIC NET Industrial Ethernet OSM wiring, network and engineering record

PRODUCT PRECAUTIONS

1

Confirm the complete 6GK1105-2AB10 marking and the documented OSM TP62 Industrial Ethernet Optical

2

Place the machine, controller and affected process in the approved maintenance state.

3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4

Record the installed position, every terminal or port, and the active engineering configuration.

5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

6

Restore protective earth, shielding, wiring, communications and the approved project or

7

Energize under control and review all device, rack, network and process diagnostics.

8

Complete a controlled functional test of managed optical-ring and twisted-pair Ethernet switching with

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ENGINEER FAQ

Q1 What OSM variant is identified by 6GK1105-2AB10?

For 6GK1105-2AB10, the official Siemens evidence records product designation as Industrial Ethernet OSM TP62 with digital inputs. Apply that value only within the documented SIMATIC NET Industrial

Q2 How many copper Industrial Ethernet ports are fitted?

For 6GK1105-2AB10, the official Siemens evidence records electrical ports as 6 x 10/100 Mbit/s RJ45. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM configuration and

Q3 Which automatic link functions are available on the RJ45 ports?

For 6GK1105-2AB10, the official Siemens evidence records electrical port functions as Auto-negotiation and auto-crossover. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM

Q4 How many optical ring ports are provided and at what link mode?

For 6GK1105-2AB10, the official Siemens evidence records optical ports as 2 x 100 Mbit/s full-duplex BFOC. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM configuration

Q5 Which fiber type is required for the optical connections?

For 6GK1105-2AB10, the official Siemens evidence records optical fiber as Multimode graded-index. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM configuration and

Q6 What maximum optical span is allowed between OSM units?

For 6GK1105-2AB10, the official Siemens evidence records maximum optical distance as 3000 m between OSM units. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM

Q7 What is the documented maximum ring size?

For 6GK1105-2AB10, the official Siemens evidence records maximum ring size as 50 OSM units / 150 km. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM configuration and

Q8 How many 24 V DC digital inputs are available for signaling?

For 6GK1105-2AB10, the official Siemens evidence records digital inputs as 8 x 24 V DC. Apply that value only within the documented SIMATIC NET Industrial Ethernet OSM configuration and confirm the

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SOURCE Siemens SIMATIC NET Industrial Ethernet OSM/ESM operating instructions | Official manufacturer evidence verified 28 September 2026

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