

INDUSTRIAL AUTOMATION PRODUCT

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 digital inputs in the documented installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC NET Industrial Ethernet OSM
Part number	6GK1105-2AB10
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

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.

System Role and Architecture

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 digital inputs in the documented installation.

FUNCTION 1
Product designation: Industrial Ethernet OSM TP62 with digital inputs

FUNCTION 2
Electrical ports: 6 x 10/100 Mbit/s RJ45

FUNCTION 3
Electrical port functions: Auto-negotiation and auto-crossover

FUNCTION 4
Optical ports: 2 x 100 Mbit/s full-duplex BFOC

RELATED APTER POWER PAGES

1 Siemens 6GK7542-5DX00-0XE0

2 Siemens 6GK5324-0GG00-1AR2

3 Siemens 6GK5206-2BS00-2AC2

4 Siemens 6GK1500-0FC10

5 Siemens 6GK1571-0BA00-0AA0

6 Siemens 6GK1503-3CB00

7 Siemens 6GK7343-1EX30-0XE0

8 Siemens 6GK5204-2BB10-2AA3

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC NET Industrial Ethernet OSM
02	Matched SIMATIC NET Industrial Ethernet OSM host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC NET Industrial Ethernet OSM
Interface role	managed optical-ring and twisted-pair Ethernet switching with digital inputs
Field / power context	documented SIMATIC NET Industrial Ethernet OSM installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 6GK1105-2AB10 marking and the documented OSM TP62 Industrial Ethernet Optical Switch Module execution.

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.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	Industrial Ethernet OSM TP62 with digital inputs	Digital inputs	8 x 24 V DC
Electrical ports	6 x 10/100 Mbit/s RJ45	Digital input signal 1	+13 to +30 V
Electrical port functions	Auto-negotiation and auto-crossover	Digital input signal 0	-30 to +3 V
Optical ports	2 x 100 Mbit/s full-duplex BFOC	Digital input current	8 mA maximum
Optical fiber	Multimode graded-index	Supply	Two redundant 24 V DC feeds, 18 to 32 V DC
Maximum optical distance	3000 m between OSM units	Management	SNMP, event log and configurable e-mail/trap
Maximum ring size	50 OSM units / 150 km		

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ENGINEERING BOUNDARY

Confirm 6GK1105-2AB10, its exact SIMATIC NET Industrial Ethernet OSM host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

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

Applications and Engineering Context

SIMATIC NET Industrial Ethernet OSM installation

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

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 during service work.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6GK1105-2AB10 recorded
Host / carrier	SIMATIC NET Industrial Ethernet OSM
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms managed optical-ring and twisted-pair Ethernet switching with digital inputs

IMPORTANT NOTICE

Confirm 6GK1105-2AB10, its exact SIMATIC NET Industrial Ethernet OSM host, power source, installed position, interfaces, 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 6GK7542-5DX00-0XE0

View Siemens 6GK7542-5DX00-0XE0 page

2

Siemens 6GK5324-0GG00-1AR2

View Siemens 6GK5324-0GG00-1AR2 page

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Siemens 6GK5206-2BS00-2AC2

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Siemens 6GK5204-2BB10-2AA3

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MANUFACTURER SOURCE RECORD

Siemens SIMATIC NET Industrial Ethernet OSM/ESM operating instructions | Official manufacturer evidence 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.