

6GK1105-2AB10

OSM TP62 Industrial Ethernet Optical Switch Module

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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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6GK1105-2AB10
Manufacturer	Siemens
System family	SIMATIC NET Industrial Ethernet OSM
Record scope	Installation, application and verification

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PLAN

ISOLATE

CONNECT

CONFIGURE

TEST

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01 PRE-INSTALLATION PLAN

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.

5

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

MATCHED HARDWARE

- Siemens 6GK1105-2AB10 with complete article identity
- Matched SIMATIC NET Industrial Ethernet OSM host or connected equipment
- Documented power, signal and communication interfaces
- Approved configuration, diagnostics and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6GK1105-2AB10 recorded
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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
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 notification

RELATED PRODUCT 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

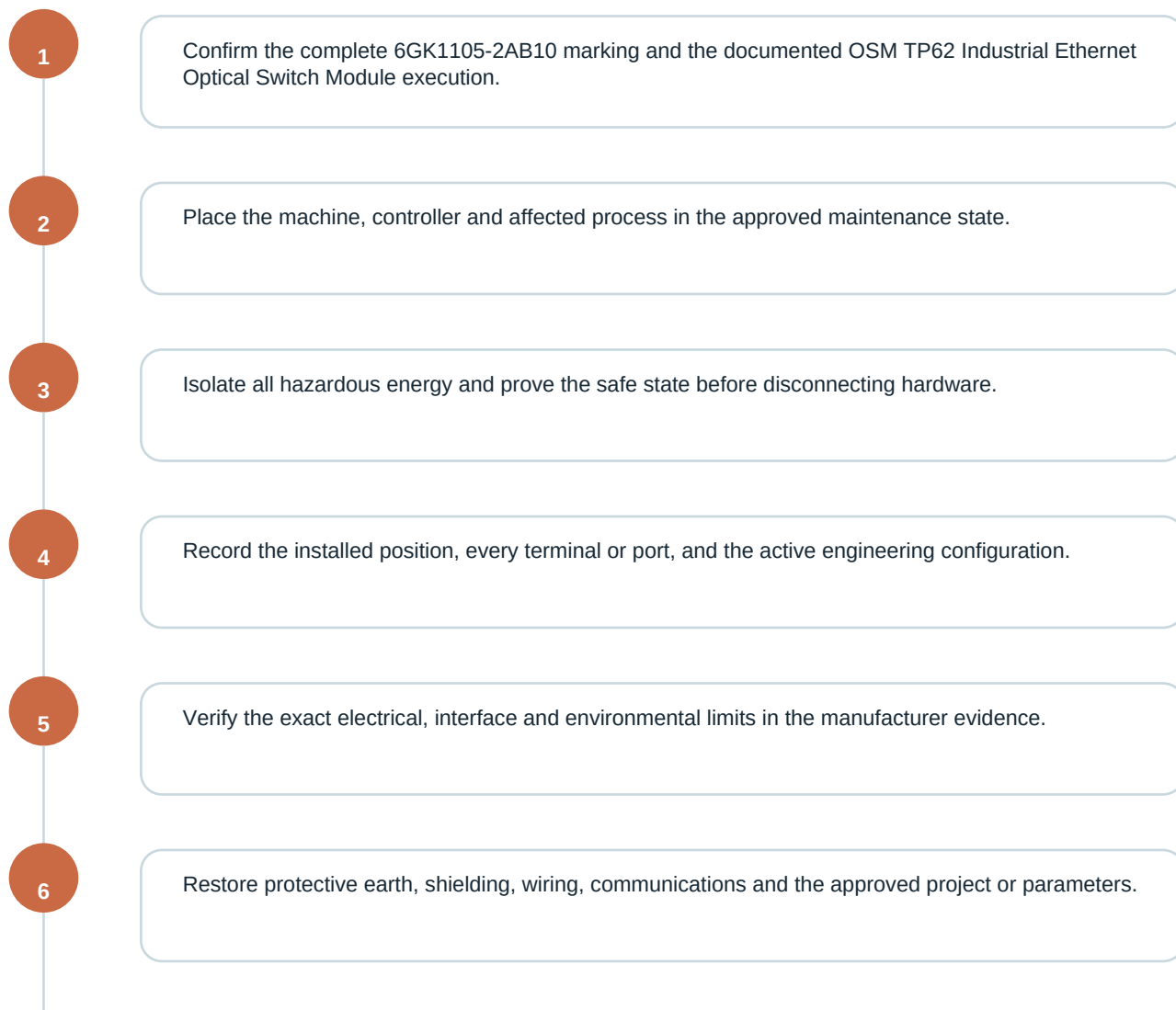
7 Siemens 6GK7343-1EX30-0XE0

8 Siemens 6GK5204-2BB10-2AA3

FIELD NOTE

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

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6GK1105-2AB10
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

04 RETURN-TO-SERVICE RECORD

- ☐ Verify the exact electrical, interface and environmental limits in the manufacturer evidence.
- ☐ Restore protective earth, shielding, wiring, communications and the approved project or parameters.
- ☐ Energize under control and review all device, rack, network and process diagnostics.
- ☐ Complete a controlled functional test of managed optical-ring and twisted-pair Ethernet switching with digital inputs before release.

VERIFICATION RECORD

PRODUCT IDENTITY	6GK1105-2AB10
INSTALLED POSITION	Documented SIMATIC NET Industrial Ethernet OSM position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Verify the exact electrical, interface and environmental limits in the manufacturer evidence.
- ☐ Restore protective earth, shielding, wiring, communications and the approved project or parameters.
- ☐ Energize under control and review all device, rack, network and process diagnostics.
- ☐ Complete a controlled functional test of managed optical-ring and twisted-pair Ethernet switching with digital inputs before release.

SOURCE IDENTIFIERS

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