SIMATIC NET OSM ITP53

Product Data Sheet

6GK1105-2AD00

Industrial Ethernet Optical Switch

ELECTRICAL ETHERNET INTERFACES	ELECTRICAL LINK RATE	OPTICAL ETHERNET LINKS	OPTICAL LINK STANDARD
5 nine-pin D-sub ports	**10/100 Mbit/s autonegotiation**	**3 dual-BFOC interfaces**	**100BaseFX, full duplex**

Siemens 6GK1105-2AD00 is the SIMATIC NET OSM ITP53 Industrial Ethernet optical switching module without digital inputs. It combines five nine-pin D-sub Industrial Twisted Pair ports with three dual-BFOC fiber interfaces. The electrical ports support 10/100 Mbit/s autonegotiation, while the optical links operate at 100 Mbit/s full duplex.

01 TECHNICAL DATA

Electrical Ethernet interfaces	5 nine-pin D-sub ports
Electrical link rate	10/100 Mbit/s autonegotiation
Optical Ethernet links	3 dual-BFOC interfaces
Optical link standard	100BaseFX, full duplex
Redundant DC feed inputs	2
Permissible supply voltage	18 to 32 V DC
Rated input current	1000 mA
Power loss at 24 V	20 W
Fault-contact rating	24 V DC / 100 mA maximum
Maximum ITP segment	100 m

Siemens Industrial Ethernet OSM/ESM Manual C79000-Z8976-C068-10; ITP53 2AD00 and applicable technical data.

02 ADDITIONAL PRODUCT DATA

Multimode optical segment	Up to 3000 m under stated optical conditions
Maximum learned addresses	7000
Default address aging	40 s
Operating temperature	0 to +60 degrees C
Protection rating	IP20

03 PRODUCT FUNCTION

The module supports redundant 24 V DC supply inputs and a separate signaling contact. The manual specifies store-and-forward switching, up to 7000 learned addresses and redundant-ring arrangements. Its IP20 enclosure requires horizontal installation with ventilation openings at the top and bottom; it must not be confused with the separate ITP53 version that includes digital inputs.

04 SYSTEM COMPATIBILITY

Connect the redundant 24 V DC feed paths within 18 to 32 V using the documented six-pin terminal block. The rated current consumption is 1000 mA and the signaling contact permits 24 V DC at 100 mA maximum. The 2AD00 variant has no digital-input terminals and should be configured accordingly.

05 REFERENCE

Siemens Industrial Ethernet OSM/ESM Manual C79000-Z8976-C068-10; ITP53 2AD00 and applicable technical data.

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