

OFFICIAL DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official Siemens technical pages

SIEMENS LOGO! CSM

6GK7177-1MA20-0AA0

LOGO! CSM 12/24 COMPACT ETHERNET SWITCH

Selected official pages retain the original technical tables, ratings, notes and pagination.

OFFICIAL SOURCE

Siemens Industrial Ethernet 09/2019; ST 70 2025, 2/29-2/30

Industrial Ethernet pages 348-349; ST 70 catalog pages 2/29-2/30

This technical extract does not replace the complete equipment and system manuals. Check the installed hardware and project before use.

9.3 LOGO! CSM

Description



Figure 9-4 LOGO! CSM 12/24

With the Compact Switch Modules LOGO! CSM 230 and LOGO! CSM 12/24, the logic system modules of the LOGO! product series can be expanded with additional Ethernet interfaces. This allows Ethernet networks to be expanded flexibly in electrical linear bus, tree or star structures.

The design of the logic modules has been adapted to the LOGO! series to allow simple and space-saving installation. The "unmanaged switches" can either connect two logic modules together or provide connectors for additional components such as operator control and monitoring devices, displays or programming devices (PGs).

- Industrial design of the new LOGO! generation
- Space-saving, optimized for connection to LOGO! system modules
- Cost-effective solution for the implementation of small, local Ethernet networks

Features

	CSM 12/24	CSM 230
Power supply	12/24 VDC (10.2 ... 30.2 VDC)	230 VAC
Connector - Industrial Ethernet	4x RJ45	
Transmission rate	10/100 Mbps	
Design	LOGO! module	
Degree of protection	IP20	

- Suitable / available or according to the specified standard.

Functions

The individual devices have the following functions:

- Diagnostics LEDs
- 1x Ethernet port on the front of the module for direct diagnostic access in the cabinet
- Connection of a LOGO! module and up to 3 further nodes to an Industrial Ethernet network at 10/100 Mbps in electrical linear bus, tree or star structures.
- Standalone usage for networking different Ethernet devices

Article numbers

Device	Description	Article number
LOGO! CSM 230	4-port compact switch modules for LOGO!, 230 VAC	6GK7177-1FA10-0AA0
LOGO! CSM 12/24	4-port compact switch modules for LOGO!, 12/24 VDC	6GK7177-1MA20-0AA0

LOGO! logic module
LOGO! communications modules

LOGO! CSM unmanaged

Overview



The module is used to connect a LOGO! and up to three other nodes to an Industrial Ethernet network with 10/100 Mbps in an electrical linear, tree or star topology.

The main features of the LOGO! CSM are:

- Unmanaged 4-port switch, of which one port is on the front for easy diagnostics access
- Power supply: 12/24 V DC
- Problem-free connection using four RJ45 standard connectors
- Space-saving, optimized for connection to LOGO!
- Low-cost solution for implementing small, local Ethernet networks
- Stand-alone use for networking any Ethernet devices

Ordering data

Article No.

LOGO! CSM compact switch module Unmanaged switch for connection of one LOGO! and up to three further stations on Industrial Ethernet with 10/100 Mbps; 4 x RJ45 ports; LED diagnostics, LOGO! module • LOGO! CSM12/24 external 12 V DC or 24 V DC power supply, for LOGO! ... 0BA7/... 0BA8	6GK7177-1MA20-0AA0
Accessories IE TP cord RJ45/RJ45 TP cable 4 x 2 with 2 RJ45 plugs • 0.5 m • 1 m • 2 m • 6 m • 10 m	6XV1870-3QE50 6XV1870-3QH10 6XV1870-3QH20 6XV1870-3QH60 6XV1870-3QN10
IE FC RJ45 outlet For connecting Industrial Ethernet FC cables and TP cords; graduated prices for 10 and 50 units or more	6GK1901-1FC00-0AA0

LOGO! logic module

LOGO! communications modules

LOGO! CSM unmanaged**Technical specifications**

Article number	6GK7177-1MA20-0AA0
product type designation	
product brand name	LOGO!
product type designation	CSM 12/24
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces for communication integrated	
number of electrical connections	4
• for network components or terminal equipment	
number of 100 Mbit/s SC ports	0
• for multimode	
interfaces other	
number of electrical connections	1
• for power supply	
type of electrical connection	3-pole terminal block
• for power supply	
supply voltage, current consumption, power loss	
type of voltage 1 of the supply voltage	DC
• supply voltage 1 rated value	24 V
• power loss [W] 1 rated value	1.5 W
• supply voltage 1 rated value	10.2 ... 30.2 V
• consumed current 1 maximum	0.15 A
• type of electrical connection 1 for power supply	3-pole terminal block
• product component 1 fusing at power supply input	Yes
ambient conditions	
ambient temperature	0 ... 55 °C
• during operation	
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity	90 %
• at 25 °C without condensation during operation maximum	
protection class IP	IP20
design, dimensions and weights	
design	LOGO! module
width	71.5 mm
height	90 mm
depth	58.2 mm
net weight	0.15 kg
fastening method	Yes
• 35 mm DIN-rail mounting	
• wall mounting	Yes
• S7-300 rail mounting	No
• S7-1500 rail mounting	No
product functions management, configuration, engineering	
product function	No
• multiport mirroring	
• switch-managed	No

Article number	6GK7177-1MA20-0AA0
standards, specifications, approvals	
certificate of suitability	Yes
• CE marking	
• cULus approval	Yes
• KC approval	No
• Regulatory Compliance Mark (RCM)	Yes
standard	UL 508, CSA C22.2 No. 142
• for safety from CSA and UL	
standards, specifications, approvals hazardous environments	
certificate of suitability	Yes
• ATEX	
• UKEX	Yes
• IECEx	Yes
• ULhazloc approval	Yes
• CCC for hazardous zone according to GB standard	Yes
• FM registration	Yes
standards, specifications, approvals other	
certificate of suitability	Yes
• RoHS conformity	
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	57.94 kg
• during manufacturing	7.42 kg
• during operation	50.38 kg
• after end of life	0.14 kg
product functions general	
reference code	KF
• according to IEC 81346-2	
• according to IEC 81346-2:2019	KFE
further information internet links	
internet link	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to website: Selection guide for cables and connectors	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com