MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6AU1720-1KA00-0AA0

SIXTY-FOUR-MEGABYTE MOTION MEMORY CARD

Used with the applicable SIMOTION C240 Micro Memory Cards configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens PM 21 Catalog 2017, SIMOTION C240 memory-card ordering and runtime-license ordering, pages 2/50 and 2/68.

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Technical specifications (continued)

PLC and Motion Control performance (continued)	
Lamp load	5 W
Purge energy/channel	400 mJ (not simultaneous)
Output delay, typ.	150 µs
Short-circuit protection	Yes
Encoder inputs, max. (C240 only) Optionally for incremental or absolute encoder Can be used alternatively as up/down counter	**4**
Incremental encoder inputs	
• Interface type (RS 422)	5 V
• Encoder power supply	5 V/0.3 A
• Galvanic isolation	No
• Encoder frequency, max.	1 MHz
• Cable length, max.	
- at 1 MHz	10 m (32 ft)
- at 500 kHz and 300 mA	25 m (82 ft)
- at 500 kHz and 210 mA	35 m (115 ft)

PLC and Motion Control performance (continued)	
Inputs, SSI absolute encoder	
• Interface type (RS 422)	5 V synchronous serial, single- or multi-turn
• Encoder power supply	24 V/0.3 A
• Galvanic isolation	No
• Transfer rate	187.5/375/750/1500 kbit/s
• Message length, max.	25 bit
• Cable length, max.	
- at 187.5 kbit/s	250 m (820 ft)
- at 1500 kbit/s	10 m (32.8 ft)
Monitoring	
• Short-circuit of the sensor supply	Yes
• Wire break	Yes
Additional technical specifications	
Real-time clock buffering	
• Buffer time, typ.	4 weeks
• Charging time, typ.	1 h
Approvals, according to	
• USA	cULus
• Canada	cULus
• Australia	RCM (formerly C-Tick)
• Korea	KCC
• Russia, Belarus, Kazakhstan	EAC

Selection and ordering data

Description	Article No.
SIMOTION C240 **Motion Controller**	**6AU1240-1AA00-0AA0**
SIMOTION C240 **MultiAxes Bundle** Consists of 1 item each • SIMOTION C240 Motion Controller • Micro Memory Card (MMC) 64 MB with MultiAxes Package license for SIMOTION C	**6AU1240-1AA00-0CA0**
SIMOTION C240 PN **Motion Controller**	**6AU1240-1AB00-0AA0**
SIMOTION C240 PN **MultiAxes Bundle** Consists of 1 item each • SIMOTION C240 PN Motion Controller • Micro Memory Card (MMC) 64 MB with MultiAxes Package license for SIMOTION C	**6AU1240-1AB00-0CA0**
Micro Memory Card (MMC) 64 MB for SIMOTION C240/C240 PN Pre-installed license can be obtained using additional order codes [1]	**6AU1720-1KA00-0AA0**
Micro Memory Card (MMC) 64 MB for SIMOTION C240/C240 PN with MultiAxes Package license for SIMOTION C	**6AU1720-1KA00-0AA0-Z** **M24**

Accessories

Description	Article No.
Accessories for **SIMOTION C240/C240 PN**	
Front connector 40-pin for connection of onboard I/Os	
• With screw-type contacts	**6ES7392-1AM00-0AA0**
• With spring-loaded contacts	**6ES7392-1BM01-0AA0**
Connecting comb PS – C2xx for PS307 power supply	**6ES7390-7BA00-0AA0**
IM 365 Interface Module for expanding the Motion Controller with max. 1 expansion unit, 2 modules with permanent connecting cable (1 m (3.28 ft))	
• Standard temperature range	**6ES7365-0BA01-0AA0**
SIMATIC S7-300 mounting rail	
• L = 160 mm (6.30 in)	**6ES7390-1AB60-0AA0**
• L = 480 mm (18.9 in)	**6ES7390-1AE80-0AA0**
• L = 530 mm (20.9 in)	**6ES7390-1AF30-0AA0**
• L = 830 mm (32.7 in)	**6ES7390-1AJ30-0AA0**
• L = 2000 mm (78.7 in)	**6ES7390-1BC00-0AA0**
Accessories for PROFINET	
RJ45 FastConnect connector for Industrial Ethernet/PROFINET	
• 145° cable outlet	
- 1 pack = 1 unit	**6GK1901-1BB30-0AA0**
- 1 pack = 10 units	**6GK1901-1BB30-0AB0**
FastConnect cables for Industrial Ethernet/PROFINET [2]	
• IE FC Standard Cable GP 2x2	**6XV1840-2AH10**
• IE FC Flexible Cable GP 2x2	**6XV1870-2B**
• IE FC Trailing Cable GP 2x2	**6XV1870-2D**
• IE FC Trailing Cable 2x2	**6XV1840-3AH10**
• IE FC Marine Cable 2x2	**6XV1840-4AH10**
Stripping tool for Industrial Ethernet/PROFINET FastConnect cables	
• IE FC Stripping Tool	**6GK1901-1GA00**

[1] See Ordering of licenses for runtime software.

[2] Sold by the meter; max. length (depending on cable type) 1000 m (3281 ft) or 2000 m (6562 ft); minimum order 20 m (65.6 ft).

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Overview

Runtime licenses for SIMOTION C and D

For SIMOTION C and D, licenses for runtime software can be ordered individually or as pre-installed software (by order code/ Z option) on memory card.

In both cases, the license certificate is enclosed.

Runtime licenses for SIMOTION P

Licenses for runtime software can be ordered individually or by means of order code (Z option) for SIMOTION P320-4.

When ordered by means of order code (Z option), the runtime licenses are not pre-installed, the license certificate is enclosed.

Ordering individual licenses

The article numbers can be found in column "Single-user license" in the ordering data table.

If several licenses of the same type are needed, e.g. 3 × POS license, the article number must be repeated for each license.

Example:

A 1 GB CompactFlash card for SIMOTION D4x5-2 has been purchased, but without pre-installed runtime licenses. During the configuring process with SIMOTION SCOUT, a message is displayed to indicate that the following runtime licenses are needed: 1 × POS axis license, 1 × TControl license.

The ordering data table specifies the following:

- POS axis license: 6AU1820-1AA20-0AB0
- TControl license: 6AU1820-2AA20-0AB0

The required software options are assigned to hardware (memory cards or SIMOTION P) by generating a license key over the Internet at:
Homepage: www.siemens.com/automation/license

Ordering pre-installed licenses

To order pre-installed licenses on memory card, the type and number of required licenses must be specified in the order using order codes (Z options). These order codes are added to the article number for the SIMOTION memory card.

Step 1: The article number of the SIMOTION memory card must be stated first:

- Memory card for SIMOTION C:
  Micro memory card 64 MB: 6AU1720-1KA00-0AA0
- Memory card for SIMOTION D410-2:
  CompactFlash card 1 GB: 6AU1400-1PA23-0AA0
- Memory card for SIMOTION D4x5-2:
  CompactFlash card 1 GB: 6AU1400-2PA23-0AA0

Step 2: The following order codes must be stated in order to specify the type and quantity of required runtime licenses:

Each order code begins with the characters "-Z" and is listed in the column headed "Order codes for pre-installed licenses" in the ordering data table.

Example 1:

64 MB micro memory card for SIMOTION C240 with

- MultiAxes Package license for SIMOTION C2xx:

Article No.: 6AU1720-1KA00-0AA0 **-Z M24**

Example 2:

1 GB CompactFlash card for SIMOTION D4x5-2 with

- 3 POS licenses
- 2 CAM licenses
- 1 TControl license and
- 1 SINAMICS Safety Integrated Extended Functions license:

Article No.: 6AU1400-2PA23-0AA0 **-Z P03 + C02 + T01 + F01**

Configurator for runtime licenses

An electronic ordering configurator is available in the Industry Mall for ordering SIMOTION hardware with corresponding runtime licenses.

Homepage: www.siemens.com/industrymall

This will guide you step by step through the process of selecting and ordering SIMOTION hardware with pre-installed runtime licenses.