MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

Siemens

PRODUCT MODEL

6ES7953-8LJ31-0AA0

512 KB Flash-EPROM Micro Memory Card. Relevant section pages: 512, 647, 837. Adjacent model text on shared pages is outside this product reference.

OFFICIAL SOURCE

SIMATIC ST70 Catalogue; 2023

Siemens original documentation and product reference

Original ST70 2023 catalogue pages listing this exact card. Host processor functions describe the listed equipment, not extra capabilities or software supplied with this card.

AMIKON PRODUCT SUPPORT

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AMIKONG.COM

Amikon Limited prepared this independent reference package. Selected manufacturer pages follow with their original content and pagination visible.

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Standard CPUs

Ordering data	Article No.
CPU 312 32 KB work memory, supply voltage 24 V DC, MPI; MMC required	**6ES7312-1AE14-0AB0**
CPU 314 128 KB work memory, supply voltage 24 V DC, MPI; MC required	**6ES7314-1AG14-0AB0**
CPU 315-2 DP 256 KB work memory, supply voltage 24 V DC, MPI, PROFIBUS DP master/slave interface; MMC required	**6ES7315-2AH14-0AB0**
CPU 315-2 PN/DP 384 KB work memory, 24 V DC supply voltage, combined MPI/PROFIBUS DP master/slave interface, Ethernet/PROFINET interface with 2-port switch; MMC required	**6ES7315-2EH14-0AB0**
CPU 317-2 DP 1 MB work memory, supply voltage 24 V DC, MPI, PROFIBUS DP master/slave interface; MMC required	**6ES7317-2AK14-0AB0**
CPU 317-2 PN/DP 1 MB work memory, 24 V DC supply voltage, combined MPI/PROFIBUS DP master/slave interface, Ethernet/PROFINET interface with 2-port switch; MMC required	**6ES7317-2EK14-0AB0**
CPU 319-3 PN/DP 2 MB work memory, 24 V DC supply voltage, combined MPI/PROFIBUS DP master/slave interface, PROFIBUS DP master/slave interface, Ethernet/PROFINET interface with 2-port switch; MMC required	**6ES7318-3EL01-0AB0**
SIMATIC Micro Memory Card	
64 KB	**6ES7953-8LF31-0AA0**
128 KB	**6ES7953-8LG31-0AA0**
512 KB	**6ES7953-8LJ31-0AA0**
2 MB	**6ES7953-8LL31-0AA0**
4 MB	**6ES7953-8LM32-0AA0**
8 MB	**6ES7953-8LP31-0AA0**
MPI cable For connection of SIMATIC S7 and PG via MPI; length 5 m	**6ES7901-0BF00-0AA0**
Slot number plates	**6ES7912-0AA00-0AA0**

	Article No.
SIMATIC Manual Collection Electronic manuals on DVD, multilingual: all manuals for S7-1200/1500/200/300/400, LOGO!, SIMATIC DP, PC, PG, STEP 7, Engineering software, runtime SW, SIMATIC HMI, SIMATIC NET, SIMATIC IDENT	**6ES7998-8XC01-8YE0**
SIMATIC Manual Collection update service for 1 year Current Manual Collection DVD and the three subsequent updates	**6ES7998-8XC01-8YE2**
Power supply connector 10 units, spare part	**6ES7391-1AA00-0AA0**
USB A2 PC adapter For connecting a programming device/PC or notebook to PROFIBUS or MPI; USB cable included in scope of delivery	**6GK1571-0BA00-0AA0**
PROFIBUS bus components	
PROFIBUS DP RS 485 bus connector	
• With 90° cable outlet, max. transfer rate 12 Mbps	
- Without PG interface	**6ES7972-0BA12-0XA0**
- With PG interface	**6ES7972-0BB12-0XA0**
• With 90° cable outlet for FastConnect connection system, max. transfer rate 12 Mbps	
- Without PG interface, 1 unit	**6ES7972-0BA52-0XA0**
- Without PG interface, 100 units	**6ES7972-0BA52-0XB0**
- With PG interface, 1 unit	**6ES7972-0BB52-0XA0**
- With PG interface, 100 units	**6ES7972-0BB52-0XB0**
• With axial cable outlet for SIMATIC OP, for connecting to PPI, MPI, PROFIBUS	**6GK1500-0EA02**
PROFIBUS FastConnect bus cable Standard type with special design for quick mounting, 2-wire, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	**6XV1830-0EH10**
RS 485 repeater for PROFIBUS Transmission rate up to 12 Mbps; 24 V DC; IP20 enclosure	**6ES7972-0AA02-0XA0**

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Overview



- The FM 352-5 high-speed Boolean processor provides extremely fast binary control and also some of the fastest switching processes ever possible (cycle time: 1 µs).
- Programming is possible with LAD or FBD.
- The available set of statements comprises bit statements (partial statement set of STEP 7), timers, counters, frequency dividers, frequency generators, shift registers.
- 12 integral DI / 8 integral DO.
- 2 versions: sinking or sourcing digital outputs.
- 1 channel for connection of a 24-V incremental encoder, a 5-V incremental encoder (RS422) or an SSI absolute encoder.

Micro Memory Card required for use of the FM 352-5

Note:

We offer position measuring systems and preassembled connecting cables for counting and positioning functions under SIMODRIVE Sensor or Motion Connect 500, see under

http://www.siemens.com/simatic-technology.

Ordering data

	Article No.
FM 352-5 high-speed Boolean processor	
with digital outputs switching to M potential	**6ES7352-5AH01-0AE0**
with digital outputs switching to P potential	**6ES7352-5AH11-0AE0**
Micro Memory Card	
128 KB	**6ES7953-8LG31-0AA0**
512 KB	**6ES7953-8LJ31-0AA0**
2 MB	**6ES7953-8LL31-0AA0**
Front connector	
40-pin, with screw contacts	
• 1 unit	**6ES7392-1AM00-0AA0**
• 100 units	**6ES7392-1AM00-1AB0**
40-pin, with spring-loaded contacts	
• 1 unit	**6ES7392-1BM01-0AA0**
• 100 units	**6ES7392-1BM01-1AB0**
Signal cables	
To HTL and TTL encoders, preassembled, without D-sub connector	**6FX5002-2CA12-■■■■0**
To SSI absolute encoders 6FX2 001-5, preassembled, without D-sub connector	**6FX5002-2CC12-■■■■**
Length code:	
0 m	**1**
100 m	**2**
200 m	**3**
0 m	**A**
10 m	**B**
20 m	**C**
30 m	**D**
40 m	**E**
50 m	**F**
60 m	**G**
70 m	**H**
80 m	**J**
90 m	**K**
0 m	**A**
1 m	**B**
2 m	**C**
3 m	**D**
4 m	**E**
5 m	**F**
6 m	**G**
7 m	**H**
8 m	**J**
9 m	**K**
0,0 m	**0**
0,1 m	**1**
0,2 m	**2**
0,3 m	**3**
0,4 m	**4**
0,5 m	**5**
0,6 m	**6**
0,7 m	**7**
0,8 m	**8**

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Overview



- CPU with PLC functionality equivalent to S7-315-2 PN/DP provides distributed intelligence for preprocessing
- Interface module for exchanging pre-processed I/O data between the ET 200pro and a higher-level master/IO controller via PROFIBUS DP/PROFINET IO
- PROFINET IO controller for operating distributed I/O on PROFINET
- Component-based Automation (CBA) on PROFINET
- PROFINET proxy for intelligent devices on PROFIBUS DP in Component-based Automation (CBA)
- PROFINET interface with 3-port switch
- Isochronous mode on PROFIBUS or PROFINET
- Integrated web server with the option of creating user-defined web pages
- CPU with PLC functionality equivalent to S7-315-2 PN/DP provides distributed intelligence for preprocessing
- Fast, simple and end-to-end programming of a system with modular programs via STEP 7
- Fail-safe IM 154-8F PN/DP CPU PROFIsafe available

Note:

SIMATIC Micro Memory Card required for operation of CPU.

Ordering data

	Article No.
IM 154-8 PN/DP CPU interface module, V3.2 PROFINET IO controller for operating distributed I/Os on PROFINET, with integrated PLC functionality.	**6ES7154-8AB01-0AB0**
Accessories	
MMC 64 KB [1] For program backup.	**6ES7953-8LF31-0AA0**
MMC 128 KB [1] For program backup.	**6ES7953-8LG31-0AA0**
MMC 512 KB [1] For program backup.	**6ES7953-8LJ31-0AA0**
MMC 2 MB [1] For program backup and/or firmware updates.	**6ES7953-8LL31-0AA0**
MMC 4 MB [1] For program backup.	**6ES7953-8LM32-0AA0**
MMC 8 MB [1] For program backup.	**6ES7953-8LP31-0AA0**
Connection module For CPU IM154-8 PN/DP, with 4 x M12 and 2 x 7/8", for connecting PROFINET and PROFIBUS DP.	**6ES7194-4AN00-0AA0**

	Article No.
Industrial Ethernet FC RJ45 plug 180 RJ45 plug connector for Industrial Ethernet with a rugged metal enclosure and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; with 180° cable outlet	
• 1 unit	**6GK1901-1BB10-2AA0**
• 10 units	**6GK1901-1BB10-2AB0**
• 50 units	**6GK1901-1BB10-2AE0**
Industrial Ethernet FastConnect installation cables	
• FastConnect standard cable	**6XV1840-2AH10**
• FastConnect trailing cable	**6XV1840-3AH10**
• FastConnect marine cable	**6XV1840-4AH10**
Industrial Ethernet FastConnect installation cables	
• IE FC TP trailing cable GP 2 x 2; sold by the meter, max. delivery unit 1000 m; minimum order quantity 20 m.	**6XV1870-2D**
• IE TP torsion cable GP 2 x 2; sold by the meter, max. delivery unit 1000 m; minimum order quantity 20 m.	**6XV1870-2F**
Industrial Ethernet FastConnect	
Stripping tool	**6GK1901-1GA00**

[1] An MMC is essential for operating the CPU