

Ordering data	Article No.	Article No.
<b>CPU 412-1</b> Main memory 288 KB, power supply 24 V DC, MPI/PROFIBUS DP master interface, slot for memory card, incl. slot number labels	6ES7412-1XJ05-0AB0	<b>SIMATIC Manual Collection</b> Electronic manuals on DVD, multilingual: LOGO!, SIMADYN, SIMATIC bus components, SIMATIC C7, SIMATIC distributed I/O, SIMATIC HMI, SIMATIC Sensors, SIMATIC NET, SIMATIC PC Based Automation, SIMATIC PCS 7, SIMATIC PG/PC, SIMATIC S7, SIMATIC Software, SIMATIC TDC
<b>CPU 412-2</b> Main memory 512 KB, power supply 24 V DC, MPI/PROFIBUS DP master interface, slot for memory card, incl. slot number labels	6ES7412-2XJ05-0AB0	<b>SIMATIC Manual Collection update service for 1 year</b> Current "Manual Collection" DVD and the three subsequent updates
<b>CPU 412-2 PN</b> Main memory 1 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFINET interface, slot for memory card, incl. slot number labels	6ES7412-2EK06-0AB0	<b>RS 485 bus connector with 90° cable outlet</b> Max. transfer rate 12 Mbit/s • Without PG interface • With PG interface
<b>Memory card RAM</b>		<b>RS 485 bus connector with angled cable outlet</b> Max. transfer rate 12 Mbit/s • Without PG interface • With PG interface
64 KB	6ES7952-0AF00-0AA0	
256 KB	6ES7952-1AH00-0AA0	
1 MB	6ES7952-1AK00-0AA0	
2 MB	6ES7952-1AL00-0AA0	
4 MB	6ES7952-1AM00-0AA0	
8 MB	6ES7952-1AP00-0AA0	
16 MB	6ES7952-1AS00-0AA0	
64 MB	6ES7952-1AY00-0AA0	
<b>FEPROM memory card</b>		<b>RS 485 bus connector with 90° cable outlet for FastConnect connection system</b> Max. transfer rate 12 Mbit/s • without PG interface - 1 unit - 100 units • with PG interface - 1 unit - 100 units
64 KB	6ES7952-0KF00-0AA0	
256 KB	6ES7952-0KH00-0AA0	
1 MB	6ES7952-1KK00-0AA0	
2 MB	6ES7952-1KL00-0AA0	
4 MB	6ES7952-1KM00-0AA0	
8 MB	6ES7952-1KP00-0AA0	
16 MB	6ES7952-1KS00-0AA0	
32 MB	6ES7952-1KT00-0AA0	
64 MB	6ES7952-1KY00-0AA0	
<b>MPI cable</b> for connection of SIMATIC S7 and PG via MPI; 5 m in length	6ES7901-0BF00-0AA0	<b>RS 485 bus connector with axial cable outlet</b> For SIMATIC OP, for connection to PPI, MPI, PROFIBUS
<b>Slot number plates</b> 1 set (spare part)	6ES7912-0AA00-0AA0	<b>PROFIBUS FastConnect bus cable</b> Standard type with special design for fast mounting, 2-core, shielded, sold by the meter; max. delivery unit 1 000 m, minimum ordering quantity 20 m
		6ES7998-8XC01-8YE0
		6ES7998-8XC01-8YE2
		6ES7972-0BA12-0XA0 6ES7972-0BB12-0XA0
		6ES7972-0BA42-0XA0 6ES7972-0BB42-0XA0
		6ES7972-0BA52-0XA0 6ES7972-0BA52-0XB0
		6ES7972-0BB52-0XA0 6ES7972-0BB52-0XB0
		6GK1500-0EA02
		6XV1830-0EH10

Ordering data	Article No.	Ordering data	Article No.
<b>CPU 414-2</b> Main memory 1 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, slot for memory card, incl. slot number labels	6ES7414-2XK05-0AB0	<b>Slot number plates</b> 1 set (spare part)	6ES7912-0AA00-0AA0
<b>CPU 414-3</b> Main memory 2.8 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFIBUS DP master interface, slot for memory card, module slots for 1 IF module, incl. slot number labels	6ES7414-3XM05-0AB0	<b>SIMATIC Manual Collection</b> Electronic manuals on DVD, multilingual: LOGO!, SIMADYN, SIMATIC bus components, SIMATIC C7, SIMATIC distributed I/O, SIMATIC HMI, SIMATIC Sensors, SIMATIC NET, SIMATIC PC Based Automation, SIMATIC PCS 7, SIMATIC PG/PC, SIMATIC S7, SIMATIC Software, SIMATIC TDC	6ES7998-8XC01-8YE0
<b>CPU 414-3 PN/DP</b> Main memory 4 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFINET interface, slot for memory card, module slot for 1 IF module, incl. slot number labels	6ES7414-3EM06-0AB0	<b>SIMATIC Manual Collection update service for 1 year</b> Current "Manual Collection" DVD and the three subsequent updates	6ES7998-8XC01-8YE2
<b>Memory card RAM</b>		<b>PROFIBUS bus components</b>	
64 KB	6ES7952-0AF00-0AA0	<b>RS 485 bus connector with 90° cable outlet</b> Max. transfer rate 12 Mbit/s	
256 KB	6ES7952-1AH00-0AA0	• Without PG interface	6ES7972-0BA12-0XA0
1 MB	6ES7952-1AK00-0AA0	• With PG interface	6ES7972-0BB12-0XA0
2 MB	6ES7952-1AL00-0AA0	<b>RS 485 bus connector with angled cable outlet</b> Max. transfer rate 12 Mbit/s	
4 MB	6ES7952-1AM00-0AA0	• Without PG interface	6ES7972-0BA42-0XA0
8 MB	6ES7952-1AP00-0AA0	• With PG interface	6ES7972-0BB42-0XA0
16 MB	6ES7952-1AS00-0AA0	<b>RS 485 bus connector with 90° cable outlet for FastConnect connection system</b> Max. transfer rate 12 Mbit/s	
64 MB	6ES7952-1AY00-0AA0	• without PG interface	
<b>FEPRAM memory card</b>		- 1 unit	6ES7972-0BA52-0XA0
64 KB	6ES7952-0KF00-0AA0	- 100 units	6ES7972-0BA52-0XB0
256 KB	6ES7952-0KH00-0AA0	• with PG interface	
1 MB	6ES7952-1KK00-0AA0	- 1 unit	6ES7972-0BB52-0XA0
2 MB	6ES7952-1KL00-0AA0	- 100 units	6ES7972-0BB52-0XB0
4 MB	6ES7952-1KM00-0AA0	<b>RS 485 bus connector with axial cable outlet</b>	6GK1500-0EA02
8 MB	6ES7952-1KP00-0AA0	For SIMATIC OP, for connection to PPI, MPI, PROFIBUS	
16 MB	6ES7952-1KS00-0AA0	<b>PROFIBUS FastConnect bus cable</b>	6XV1830-0EH10
32 MB	6ES7952-1KT00-0AA0	Standard type with special design for fast mounting, 2-core, shielded, sold by the meter; max. delivery unit 1 000 m, minimum ordering quantity 20 m	
64 MB	6ES7952-1KY00-0AA0	<b>RS 485 repeater for PROFIBUS</b>	6ES7972-0AA02-0XA0
<b>MPI cable</b> for connection of SIMATIC S7 and PG via MPI; 5 m in length	6ES7901-0BF00-0AA0	Transmission rate up to 12 Mbit/s; 24 V DC; IP20 enclosure	
<b>IF 964-DP interface module</b> To connect an additional DP line; for CPU 414-3, CPU 414-3 PN/DP, CPU 416-3, CPU 416-3 PN/DP, CPU 417-4	6ES7964-2AA04-0AB0		

**SIMATIC S7-400 advanced controller**

Central processing units

Standard CPUs

**CPU 416****Ordering data****Article No.****CPU 416-2**

Main memory 5.6 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFIBUS DP master interface, slot for memory card, incl. slot number labels

**6ES7416-2XN05-0AB0****CPU 416-3**

Main memory 11.2 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFIBUS DP master interface, module slot for 1 IF module, slot for memory card, incl. slot number labels

**6ES7416-3XR05-0AB0****CPU 416-3 PN/DP**

Main memory 16 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFINET interface, module slot for 1 IF submodule, slot for memory card, incl. slot number labels

**6ES7416-3ES06-0AB0****Memory card RAM**

64 KB

**6ES7952-0AF00-0AA0**

256 KB

**6ES7952-1AH00-0AA0**

1 MB

**6ES7952-1AK00-0AA0**

2 MB

**6ES7952-1AL00-0AA0**

4 MB

**6ES7952-1AM00-0AA0**

8 MB

**6ES7952-1AP00-0AA0**

16 MB

**6ES7952-1AS00-0AA0**

64 MB

**6ES7952-1AY00-0AA0****FEPROM memory card**

64 KB

**6ES7952-0KF00-0AA0**

256 KB

**6ES7952-0KH00-0AA0**

1 MB

**6ES7952-1KK00-0AA0**

2 MB

**6ES7952-1KL00-0AA0**

4 MB

**6ES7952-1KM00-0AA0**

8 MB

**6ES7952-1KP00-0AA0**

16 MB

**6ES7952-1KS00-0AA0**

32 MB

**6ES7952-1KT00-0AA0**

64 MB

**6ES7952-1KY00-0AA0****MPI cable**

for connection of SIMATIC S7 and PG via MPI; 5 m in length

**6ES7901-0BF00-0AA0****IF 964-DP interface module**

To connect an additional DP line; for CPU 414-3, CPU 414-3 PN/DP, CPU 416-3, CPU 416-3 PN/DP, CPU 417-4

**6ES7964-2AA04-0AB0****Article No.****Slot number plates**

1 set (spare part)

**6ES7912-0AA00-0AA0****SIMATIC Manual Collection**

Electronic manuals on DVD, multilingual: LOGO!, SIMADYN, SIMATIC bus components, SIMATIC C7, SIMATIC distributed I/O, SIMATIC HMI, SIMATIC Sensors, SIMATIC NET, SIMATIC PC-based Automation, SIMATIC PCS 7, SIMATIC PG/PC, SIMATIC S7, SIMATIC Software, SIMATIC TDC

**6ES7998-8XC01-8YE0****SIMATIC Manual Collection update service for 1 year**

Current "Manual Collection" DVD and the three subsequent updates

**6ES7998-8XC01-8YE2****PROFIBUS bus components****RS 485 bus connector with 90° cable outlet**

Max. transfer rate 12 Mbit/s

- Without PG interface
- With PG interface

**6ES7972-0BA12-0XA0****6ES7972-0BB12-0XA0****RS 485 bus connector with angled cable outlet**

Max. transfer rate 12 Mbit/s

- Without PG interface
- With PG interface

**6ES7972-0BA42-0XA0****6ES7972-0BB42-0XA0****RS 485 bus connector with 90° cable outlet for FastConnect connection system**

Max. transfer rate 12 Mbit/s

- Without PG interface

- 1 unit
- 100 units

**6ES7972-0BA52-0XA0****6ES7972-0BA52-0XB0**

- With PG interface

- 1 unit
- 100 units

**6ES7972-0BB52-0XA0****6ES7972-0BB52-0XB0****RS 485 bus connector with axial cable outlet**

For SIMATIC OP, for connection to PPI, MPI, PROFIBUS

**6GK1500-0EA02****PROFIBUS FastConnect bus cable**

Standard type with special design for fast mounting, 2-core, shielded, sold by the meter; max. delivery unit 1 000 m, minimum ordering quantity 20 m

**6XV1830-0EH10****RS 485 repeater for PROFIBUS**

Transfer rate up to 12 Mbps; 24 V DC; IP20 enclosure

**6ES7972-0AA02-0XA0**

**SIMATIC S7-400 advanced controller**

Central processing units  
Standard CPUs

**CPU 417****Ordering data****Article No.****Article No.****CPU 417-4**

Main memory 30 MB, power supply 24 V DC, MPI/PROFIBUS DP master interface, PROFIBUS DP master interface, module slots for up to 2 additional IF modules, slot for memory card, incl. slot number labels

**6ES7417-4XT05-0AB0****Memory card RAM**

64 KB

**6ES7952-0AF00-0AA0**

256 KB

**6ES7952-1AH00-0AA0**

1 MB

**6ES7952-1AK00-0AA0**

2 MB

**6ES7952-1AL00-0AA0**

4 MB

**6ES7952-1AM00-0AA0**

8 MB

**6ES7952-1AP00-0AA0**

16 MB

**6ES7952-1AS00-0AA0**

64 MB

**6ES7952-1AY00-0AA0****FEPRAM memory card**

64 KB

**6ES7952-0KF00-0AA0**

256 KB

**6ES7952-0KH00-0AA0**

1 MB

**6ES7952-1KK00-0AA0**

2 MB

**6ES7952-1KL00-0AA0**

4 MB

**6ES7952-1KM00-0AA0**

8 MB

**6ES7952-1KP00-0AA0**

16 MB

**6ES7952-1KS00-0AA0**

32 MB

**6ES7952-1KT00-0AA0**

64 MB

**6ES7952-1KY00-0AA0****MPI cable**

for connection of SIMATIC S7 and PG via MPI; 5 m in length

**6ES7901-0BF00-0AA0****IF 964-DP interface module**

To connect an additional DP line; for CPU 414-3, CPU 414-3 PN/DP, CPU 416-3, CPU 416-3 PN/DP, CPU 417-4

**6ES7964-2AA04-0AB0****Slot number plates**

1 set (spare part)

**6ES7912-0AA00-0AA0****SIMATIC Manual Collection**

Electronic manuals on DVD, multilingual: LOGO!, SIMADYN, SIMATIC bus components, SIMATIC C7, SIMATIC distributed I/O, SIMATIC HMI, SIMATIC Sensors, SIMATIC NET, SIMATIC PC Based Automation, SIMATIC PCS 7, SIMATIC PG/PC, SIMATIC S7, SIMATIC Software, SIMATIC TDC

**6ES7998-8XC01-8YE0****SIMATIC Manual Collection update service for 1 year**

Current "Manual Collection" DVD and the three subsequent updates

**6ES7998-8XC01-8YE2****RS 485 bus connector with 90° cable outlet**

Max. transfer rate 12 Mbit/s

- Without PG interface
- With PG interface

**6ES7972-0BA12-0XA0**  
**6ES7972-0BB12-0XA0****RS 485 bus connector with angled cable outlet**

Max. transfer rate 12 Mbit/s

- Without PG interface
- With PG interface

**6ES7972-0BA42-0XA0**  
**6ES7972-0BB42-0XA0****RS 485 bus connector with 90° cable outlet for FastConnect connection system**

Max. transfer rate 12 Mbit/s

- without PG interface
  - 1 unit
  - 100 units
- with PG interface
  - 1 unit
  - 100 units

**6ES7972-0BA52-0XA0**  
**6ES7972-0BA52-0XB0****6ES7972-0BB52-0XA0**  
**6ES7972-0BB52-0XB0****RS 485 bus connector with axial cable outlet**

For SIMATIC OP, for connection to PPI, MPI, PROFIBUS

**6GK1500-0EA02****PROFIBUS FastConnect bus cable**

Standard type with special design for fast mounting, 2-core, shielded, sold by the meter; max. delivery unit 1 000 m, minimum ordering quantity 20 m

**6XV1830-0EH10**