

SIMATIC S7-1500 Advanced Controllers

Central processing units

Standard CPUs

Ordering data	Article No.		Article No.
CPU 1511-1 PN Work memory 150 KB for program, 1 MB for data, PROFINET IO IRT interface; SIMATIC Memory Card required	6ES7511-1AK01-0AB0	PE connection element for DIN rail 2000 mm 20 units	6ES7590-5AA00-0AA0
CPU 1513-1 PN Work memory 300 KB for program, 1.5 MB for data, PROFINET IO IRT interface; SIMATIC Memory Card required	6ES7513-1AL01-0AB0	Power supply For supplying the backplane bus of the S7-1500 24 V DC input voltage, power 25 W 24/48/60 V DC input voltage, power 60 W 24/48/60 V DC input voltage, power 60 W, buffering functionality 120/230 V AC input voltage, power 60 W	6ES7505-0KA00-0AB0 6ES7505-0RA00-0AB0 6ES7505-0RB00-0AB0 6ES7507-0RA00-0AB0
CPU 1515-2 PN Work memory 500 KB for program, 3 MB for data, PROFINET IO IRT interface, PROFINET interface; SIMATIC Memory Card required	6ES7515-2AM01-0AB0	Power connector With coding element for power supply module; spare part, 10 units	6ES7590-8AA00-0AA0
CPU 1516-3 PN/DP Work memory 1 MB for program, 5 MB for data, PROFINET IO IRT interface, PROFINET/PROFIBUS interface; SIMATIC Memory Card required	6ES7516-3AN01-0AB0	Load power supply 24 V DC/3 A 24 V DC/8 A	6EP1332-4BA00 6EP1333-4BA00
CPU 1517-3 PN/DP Work memory 2 MB for program, 8 MB for data, PROFINET IO IRT interface, PROFINET/PROFIBUS interface; SIMATIC Memory Card required	6ES7517-3AP00-0AB0	Power supply connector Spare part; for connecting the 24 V DC supply voltage • With push-in terminals	6ES7193-4JB00-0AA0
CPU 1518-4 PN/DP Work memory 4 MB for program, 20 MB for data, PROFINET IO IRT interface, 2 PROFINET interfaces, PROFIBUS interface; SIMATIC Memory Card required	6ES7518-4AP00-0AB0	PROFIBUS FastConnect RS 485 bus connector with 90° cable outlet With insulation displacement, max. transmission rate 12 Mbps Without PG interface, grounding via control cabinet contact surface; 1 unit With PG interface, grounding via control cabinet contact surface; 1 unit	6ES7972-0BA70-0XA0 6ES7972-0BB70-0XA0
CPU 1518-4 PN/DP ODK Work memory 4 MB for program, 20 MB for data, PROFINET IO IRT interface, 2 PROFINET interfaces, PROFIBUS interface; SIMATIC Memory Card required	6ES7518-4AP00-3AB0	PROFIBUS FC Standard Cable GP Standard type with special design for fast mounting, 2-wire, shielded; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1830-0EH10
Accessories		PROFIBUS FC Robust Cable 2-wire, shielded; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1830-0JH10
SIMATIC Memory Card		PROFIBUS FC Flexible Cable 2-wire, shielded; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1831-2K
4 MB	6ES7954-8LC02-0AA0	PROFIBUS FC Trailing Cable 2-wire, shielded; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m Sheath color: Petrol	6XV1830-3EH10
12 MB	6ES7954-8LE02-0AA0	Sheath color: Violet	6XV1831-2L
24 MB	6ES7954-8LF02-0AA0	PROFIBUS FC Food Cable 2-wire, shielded; sold by the meter; max. delivery unit 1000 m, minimum order quantity 20 m	6XV1830-0GH10
256 MB	6ES7954-8LL02-0AA0		
2 GB	6ES7954-8LP02-0AA0		
32 GB	6ES7954-8LT03-0AA0		
SIMATIC S7-1500 DIN rail Fixed lengths, with grounding elements • 160 mm • 245 mm • 482 mm • 530 mm • 830 mm For cutting to length by customer, without drill holes; grounding elements must be ordered separately • 2000 mm	6ES7590-1AB60-0AA0 6ES7590-1AC40-0AA0 6ES7590-1AE80-0AA0 6ES7590-1AF30-0AA0 6ES7590-1AJ30-0AA0 6ES7590-1BC00-0AA0		

Ordering data	Article No.		Article No.
Twisted Pair cables 4x2 with RJ45 connectors		M12 bus termination connector for PROFIBUS, female insert	6GK1905-0ED00
0.5 m	6XV1870-3QE50	M12 bus termination connector for PROFIBUS, male insert	6GK1905-0EC00
1 m	6XV1870-3QH10	M12 plug connector, axial outlet, with male insert	6GK1905-0EA00
2 m	6XV1870-3QH20	PROFIBUS FC Standard Cable GP	6XV1830-0EH10
6 m	6XV1870-3QH60	Standard type with special design for fast mounting, 2-wire, shielded.	
10 m	6XV1870-3QN10	Sold by the meter; max. delivery unit 1 000 m, minimum order quantity 20 m.	
Crossed Twisted Pair cables 4x2 with RJ45 connectors		PROFIBUS FC Trailing Cable	6XV1830-3EH10
0.5 m	6XV1870-3RE50	2-wire, shielded.	
1 m	6XV1870-3RH10	PROFIBUS FC Food Cable	6XV1830-0GH10
2 m	6XV1870-3RH20	2-wire, shielded.	
6 m	6XV1870-3RH60	Sold by the meter; max. delivery unit 1 000 m, minimum order quantity 20 m.	
10 m	6XV1870-3RN10	PROFIBUS FC Robust Cable	6XV1830-0JH10
M12 sealing cap	3RX9802-0AA00	2-wire, shielded	
For protection of unused M12 connections with ET 200pro		Sold by the meter; max. delivery unit 1 000 m, minimum order quantity 20 m.	
M12 sealing caps with female thread	6ES7194-4JD60-0AA0	PROFIBUS M12 cable connector	
5 units		5-pole, B-coded, metal casing, 1 pack = 5 units.	6GK1905-0EB00
PROFIBUS M12 connecting cable		• Female insert	
Preassembled, with two 5-pole M12 connectors/sockets, up to 100 m, in various lengths:			
1.5 m	6XV1830-3DH15		
2.0 m	6XV1830-3DH20		
3.0 m	6XV1830-3DH30		
5.0 m	6XV1830-3DH50		
10 m	6XV1830-3DN10		
15 m	6XV1830-3DN15		
Other special lengths with 90° or 180° cable outlet	See http://support.automation.siemens.com/WW/view/en/26999294		

Ordering data	Article No.		Article No.
IM 155-5 DP ST interface module IP 20 degree of protection, module width 35 mm, installation on S7-1500 DIN rail	6ES7155-5BA00-0AB0	FC robust cable Bus cable with PUR sheath for use under conditions of extreme mechanical stress or aggressive chemicals, 2-core, shielded, sold by the meter, max. delivery unit 1,000 m, minimum order quantity 20 m	6XV1830-0JH10
Accessories		FC flexible cable PROFIBUS bus cable, flexible, with special design for quick mounting, 2-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	6XV1831-2K
Front flap for IM 155-5 PN (spare part), 5 units	6ES7528-0AA70-7AA0	FC trailing cable PROFIBUS trailing cable, at least 3 million bending cycles, min. bending radius approx. 120 mm, 2-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	6XV1830-3EH10
SIMATIC S7-1500 DIN rail Fixed lengths, with grounding elements • 160 mm • 245 mm • 482 mm • 530 mm • 830 mm For cutting to length by customer, without drill holes; grounding ele- ments must be ordered separately • 2000 mm	6ES7590-1AB60-0AA0 6ES7590-1AC40-0AA0 6ES7590-1AE80-0AA0 6ES7590-1AF30-0AA0 6ES7590-1AJ30-0AA0 6ES7590-1BC00-0AA0	FC bus cable PROFIBUS Food bus cable with PE sheath for use in the food and beverages industry, 2-core, shielded, sold by the meter, max. delivery unit 1,000 m, minimum order quantity 20 m	6XV1830-0GH10
PE connection element for DIN rail 2000 mm 20 units	6ES7590-5AA00-0AA0	FC underground cable PROFIBUS underground cable, 2-core, shielded, sold by the meter, max. delivery unit 1,000 m, minimum order quantity 20 m	6XV1830-3FH10
Load power supply 24 V DC/3 A 24 V DC/8 A	6EP1332-4BA00 6EP1333-4BA00	FC FRNC cable PROFIBUS bus cable, flame-retardant and halogen-free, with copolymer sheath FRNC, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	6XV1830-0LH10
Power supply connector Spare part; for connecting the 24 V DC supply voltage • with push-in terminals	6ES7193-4JB00-0AA0	FC trailing cable PROFIBUS trailing cable, at least 3 million bending cycles, min. bending radius approx. 120 mm, 2-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m	6XV1831-2L
PROFIBUS connector • Connector for PROFIBUS, up to 12 Mbps, 90° cable outlet, insulation displacement system, without PG socket • Connector for PROFIBUS, up to 12 Mbps, 90° cable outlet, insulation displacement system, with PG socket	6ES7972-0BA70-0XA0 6ES7972-0BB70-0XA0	IE FC Stripping Tool Preadjusted stripping tool for fast stripping of Industrial Ethernet FC cables	6GK1901-1GA00
PROFIBUS Stripping Tool Stripping tool for fast stripping of the PROFIBUS	6GK1905-6AA00		
PROFIBUS FastConnect bus cable • Standard type with special design for quick mounting, 2-core, shielded, sold by the meter, max. delivery unit 1000 m, minimum order quantity 20 m • 20 m • 50 m • 100 m • 200 m • 500 m • 1000 m	6XV1830-0EH10 6XV1830-0EN20 6XV1830-0EN50 6XV1830-0ET10 6XV1830-0ET20 6XV1830-0ET50 6XV1830-0EU10		

Ordering data	Article No.		Article No.
IM154-1 interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP.	6ES7154-1AA01-0AB0		
IM154-2 DP High Feature interface module For ET 200pro; for communication between ET 200pro and higher-level masters over PROFIBUS DP; supports PROFI-safe.	6ES7154-2AA01-0AB0		
Accessories			
CM IM DP ECOFAST connection module For connecting PROFIBUS DP and the 24 V power supply to PROFIBUS interface modules, 2 ECOFAST Cu connections.	6ES7194-4AA00-0AA0	PROFIBUS ECOFAST hybrid cable, non-assembled Trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths: 50 m 100 m	6XV1830-7AN50 6XV1830-7AT10
CM IM DP direct connection module For connecting PROFIBUS DP and the 24 V power supply directly to PROFIBUS interface modules, up to six M20 cable glands.	6ES7194-4AC00-0AA0	PROFIBUS ECOFAST hybrid connector 180 ECOFAST Cu, 2 x Cu, 4 x 1.5 mm ² , HANBRID connector • With male insert, 5-pack • With female insert, 5-pack	6GK1905-0CA00 6GK1905-0CB00
CM IM DP M12, 7/8" connection module For connecting PROFIBUS DP and the 24 V power supply to PROFIBUS interface modules, 2 x M12 and 2 x 7/8".	6ES7194-4AD00-0AA0	PROFIBUS ECOFAST hybrid connector angular ECOFAST Cu, 2 x Cu, 4 x 1.5 mm ² , HANBRID connector • With male insert, 5-pack • With female insert, 5-pack	6GK1905-0CC00 6GK1905-0CD00
Accessories for CM IM DP ECOFAST		Accessories for CM IM DP direct	
PROFIBUS ECOFAST hybrid cable, pre-assembled With 2 ECOFAST connectors, trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths: 1.5 m 3.0 m 5.0 m 10 m 15 m 20 m	6XV1830-7BH15 6XV1830-7BH30 6XV1830-7BH50 6XV1830-7BN10 6XV1830-7BN15 6XV1830-7BN20	PROFIBUS trailing cable Max. acceleration 4 m/s ² , at least 3 million bending cycles, bending radius at least 60 mm, 2-core shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.	6XV1830-3EH10
PROFIBUS ECOFAST hybrid cable GP, pre-assembled With 2 ECOFAST connectors, trailing-type cable with 2 x Cu 0.64 mm ² and 4 x Cu 1.5 mm ² , in various lengths: 1.5 m 3.0 m 5.0 m 10 m 15 m 20 m	6XV1860-3PH15 6XV1860-3PH30 6XV1860-3PH50 6XV1860-3PN10 6XV1860-3PN15 6XV1860-3PN20	PROFIBUS FC Food bus cable With PE sheath for use in the food and beverages industry, 2-core, shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.	6XV1830-0GH10
		PROFIBUS FC Robust bus cable With PUR sheath for use in environments subject to harsh chemicals and extreme mechanical stress, 2-core, shielded, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.	6XV1830-0JH10
		Power line 5-core, 5 x 1.5 mm ² , trailing type, sold by the meter, minimum order quantity 20 m, maximum order quantity 1 000 m.	6XV1830-8AH10