

Technical specifications (continued)

Article number	6ES7154-8AB01-0AB0 ET200PRO: IM 154-8 PN/DP CPU, 384KB
2. Interface	
Interface type	PROFINET
Physics	Ethernet (2 x M12 d-coded; 1 x RJ45)
Interface types	
• Number of ports	3
Functionality	
• MPI	No
• PROFINET IO Controller	Yes; Also simultaneously with IO-Device functionality
• PROFINET IO Device	Yes; Also simultaneously with IO Controller functionality
• PROFINET CBA	Yes
• PROFIBUS DP master	No
• PROFIBUS DP slave	No
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes; Via PROFIBUS DP or PROFINET interface
Communication functions	
PG/OP communication	Yes
Global data communication	
• supported	Yes
S7 basic communication	
• supported	Yes
S7 communication	
• supported	Yes
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
- Number of connections, max.	8
• ISO-on-TCP (RFC1006)	Yes
- Number of connections, max.	8
• UDP	Yes
- Number of connections, max.	8
Web server	
• supported	Yes
Configuration	
Programming	
Programming language	
- LAD	Yes
- FBD	Yes
- STL	Yes
- SCL	Yes
- CFC	Yes
- GRAPH	Yes
- HiGraph®	Yes
Know-how protection	
• User program protection/password protection	Yes
• Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	135 mm
Height	130 mm
Depth	65 mm; 60 mm without cover for RJ45 socket; 65 mm with cover for RJ45 socket
Weights	
Weight, approx.	720 g

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.

6ES7953-8LM31-0AA0**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**SCALANCE X-200
Industrial Ethernet switches**

With integral SNMP access,
web diagnostics, copper cable
diagnostics and PROFINET
diagnostics, for setting up linear,
star and ring structures
SCALANCE X208PRO,
in degree of protection IP65,
with eight 10/100 Mbit/s M12 ports,
incl. eleven M12 dust caps.

6GK5208-0HA10-2AA6**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
- 10 units
- 50 units

6GK1901-1BB10-2AA0
6GK1901-1BB10-2AB0
6GK1901-1BB10-2AE0

**Industrial Ethernet Fast Connect
installation cables**

- FastConnect Standard Cable
- FastConnect Trailing Cable
- FastConnect Marine Cable

6XV1840-2AH10
6XV1840-3AH10
6XV1840-4AH10

**Industrial Ethernet FastConnect
installation cables**

- **IE FC TP Trailing Cable GP 2 x 2;**
sold by the meter,
max. delivery unit 1 000 m;
minimum order quantity 20 m.
- **IE TP Torsion Cable GP 2 x 2;**
sold by the meter,
max. delivery unit 1 000 m;
minimum order quantity 20 m.

6XV1870-2D**6XV1870-2F****Industrial Ethernet Fast Connect**

Stripping Tool

6GK1901-1GA00

¹⁾ An MMC is essential for operating the CPU

Distributed Controllers

based on ET 200Pro

Fail-safe CPUs

IM 154-8 F PN/DP CPU

Ordering data	Article No.		Article No.
Accessories		Industrial Ethernet FastConnect installation cables	
SIMATIC Micro Memory Cards		• IE FC TP Trailing Cable GP 2 x 2; sold by the meter, max. delivery unit 1 000 m; minimum order quantity 20 m.	6XV1870-2D
MMC 64 KB ²⁾	6ES7953-8LF31-0AA0	• IE TP Torsion Cable GP 2 x 2; sold by the meter, max. delivery unit 1 000 m; minimum order quantity 20 m.	6XV1870-2F
For program backup.			
MMC 128 KB ²⁾	6ES7953-8LG31-0AA0		
For program backup.			
MMC 512 KB ²⁾	6ES7953-8LJ31-0AA0		
For program backup.			
MMC 2 MB ²⁾	6ES7953-8LL31-0AA0		
For program backup and/or firmware updates.			
MMC 4 MB ²⁾	6ES7953-8LM31-0AA0		
For program backup.			
MMC 8 MB ²⁾	6ES7953-8LP31-0AA0		
For program backup.			
Connection module	6ES7194-4AN00-0AA0	Industrial Ethernet FastConnect	
For CPU IM154-8 PN/DP, with 4 x M12 and 2 x 7/8", for connecting PROFINET and PROFIBUS DP.		Stripping Tool	6GK1901-1GA00
SCALANCE X-200 Industrial Ethernet switches	6GK5208-0HA10-2AA6	IE Connecting Cable M12-180/M12-180	
With integral SNMP access, web diagnostics, copper cable diagnostics and PROFINET diagnostics, for setting up linear, star and ring structures SCALANCE X208PRO, in degree of protection IP65, with eight 10/100 Mbit/s M12 ports, incl. eleven M12 dust caps.		• Preassembled IE FC TP Trailing Cable GP 2 x 2 (PROFINET Type C) with two 4-pin M12 plugs (4-pin, D-coded), degree of protection IP65/IP67, in various lengths: - 0.3 m - 0.5 m - 1.0 m - 1.5 m - 2.0 m - 3.0 m - 5.0 m - 10 m - 15 m • PROFINET M12 connecting cable, trailing cable preassembled at both ends with angled M12 connectors (male contact insert), in various lengths: - 3.0 m - 5.0 m - 10 m • PROFINET M12 connecting cable, trailing cable preassembled at one end with angled M12 connector (male contact insert at one end, other end open), in various lengths: - 3.0 m - 5.0 m - 10 m	6XV1870-8AE30 6XV1870-8AE50 6XV1870-8AH10 6XV1870-8AH15 6XV1870-8AH20 6XV1870-8AH30 6XV1870-8AH50 6XV1870-8AN10 6XV1870-8AN15
Industrial Ethernet FC RJ45 Plug 90			
RJ45 plug connector for Industrial Ethernet with a rugged metal housing and integrated insulation displacement contacts for connecting Industrial Ethernet FC installation cables; with 90° cable outlet.			
• 1 unit • 10 units	6GK1901-1BB20-2AA0 6GK1901-1BB20-2AB0		3RK1902-2NB30 3RK1902-2NB50 3RK1902-2NC10
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 • 10 units • 50 units	6GK1901-1BB10-2AA0 6GK1901-1BB10-2AB0 6GK1901-1BB10-2AE0	IE FC M12 Plug PRO	
Industrial Ethernet FastConnect installation cables		PROFINET M12 plug connector, D-coded with fast connection system, axial cable outlet.	
• FastConnect Standard Cable • FastConnect Trailing Cable • FastConnect Marine Cable	6XV1840-2AH10 6XV1840-3AH10 6XV1840-4AH10	• 1 unit • 8 units • PROFINET M12 plug connector, D-coded, angled	6GK1901-0DB20-6AA0 6GK1901-0DB20-6AA8 3RK1902-2DA00
		IE panel feedthrough	
		Cabinet feedthrough for converting from the M12 connection system (D-coded, IP65/IP67) to the RJ45 connection system (IP20), 1 pack = 5 units	6GK1901-0DM20-2AA5

²⁾ An MMC is essential for operating the CPU