



SIMATIC interface module IM 152-1PN for ET200iSP, PROFINET connection standard, and redundant operation, incl. 2x SFP transceiver Ex, multimode fiber-optic cable LC, 50/125µm and 62.5/125µm, Ex ib IIC T4 Gb, Ex ib I Mb

General information	
Product brand name	SIMATIC
Product family	ET 200iSP
Product category	Interface module
Product type designation	IM 152-1PN
HW functional status	01
Firmware version	V1.0.4
• FW update possible	Yes
Vendor identification (VendorID)	02AH
Product function	
• Isochronous mode	No
Installation type/mounting	
Rack mounting	No
Front mounting	Yes; incl. mounting rail
Rail mounting	Yes
Wall mounting/direct mounting	No
Supply voltage	
Type of supply voltage	DC, SELV
Rated value (DC)	11.5 V supply voltage; 3.55 V bus
permissible range, upper limit (DC)	12.7 V supply voltage; 4.1 V bus
Input current	
from load voltage (power bus), max.	150 mA
Power loss	
Power loss, typ.	1.6 W
Hardware configuration	
Fieldbus connection via separate transceiver	No
IO-Link	
IO-Link master	No
Interfaces	
Interfaces/bus type	PROFINET IO
Transmission rate, max.	100 Mbit/s
Supports protocol for PROFINET IO	
Cable length	
— Multimode graded-index fiber 50/125 µm	3 000 m
— Multimode graded-index fiber 62.5/125 µm	3 000 m
1. Interface	
Interface type	multimode fiber-optic cable
Interface types	
• RJ 45 (Ethernet)	No

• Number of ports	2
• integrated switch	Yes
• BusAdapter (PROFINET)	No
• Design of the connection	Optical
• type of connector	LC
<b>Protocols</b>	
• PROFINET IO Device	Yes
• Media redundancy	Yes
<b>PROFINET IO Device</b>	
<b>Services</b>	
— Shared device	No
<b>Protocols</b>	
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
PROFIBUS DP	No
EtherNet/IP	No
<b>Redundancy mode</b>	
• PROFINET system redundancy (S2)	Yes
• PROFINET system redundancy (R1)	Yes
<b>Media redundancy</b>	
— MRP	Yes
<b>Open IE communication</b>	
• LLDP	Yes
<b>Interrupts/diagnostics/status information</b>	
Alarms	Yes
Diagnostics function	Yes
<b>Alarms</b>	
• acyclic function, interrupts	Yes
• acyclic function, parameters	Yes
<b>Diagnostics indication LED</b>	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
• MAINT LED	Yes; Yellow LED
• LINK LED	Yes; green LED
• Monitoring of the supply voltage (PWR-LED)	Yes; green LED
• Bus fault BF (red)	No
• Group error SF (red)	No
• Monitoring 24 V voltage supply ON (green)	No
<b>Potential separation</b>	
between supply voltage and electronics	No
<b>Degree and class of protection</b>	
IP degree of protection	IP30
<b>Standards, approvals, certificates</b>	
CE mark	CE 0344
UKCA mark	DEKRA 22UKEX0109 Importer UK: Siemens plc Manchester M20 2UR
cULus	LISTED E334384
Suitable for safety functions	No
INMETRO certificate	UL-BR 22.4315
reference designation according to IEC 81346-2 (2009)	K
<b>Use in hazardous areas</b>	
• ATEX marking	II 2 G Ex ib IIC T4 Gb and I M2 Ex ib I Mb
• ATEX certificate	DEKRA 22ATEX0036
• IECEx	IECEx DEK 22.0020
• CCC Ex	2023322310005199
• EAC Ex	No
• Explosion protection category for gas	ATEX gas explosion protection, Zone 1
• Explosion protection category for dust	No
• associated equipment (Ex ia)	No

- associated equipment (Ex Ib)

No

### Ambient conditions

#### Ambient temperature during operation

- horizontal installation, min. -20 °C
- horizontal installation, max. 70 °C
- vertical installation, min. -20 °C
- vertical installation, max. 50 °C

#### Ambient temperature during storage/transportation

- min. -40 °C
- max. 70 °C

#### Altitude during operation relating to sea level

- Ambient air temperature-barometric pressure-altitude Up to max. 2 000 m

#### Relative humidity

- Operation, max. 95 %

### Dimensions

Width	30 mm
Height	190 mm
Depth	130 mm

### Weights

Weight, approx.	440 g
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### Classifications

	Version	Classification
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

### Approvals / Certificates

#### General Product Approval

#### For use in hazardous locations



[CCC-Ex](#)



#### For use in hazardous locations

#### Environment



[Miscellaneous](#)



[Type Examination Certificate](#)



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