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IM 153-4 PN



IM 153-4 PN features	IM 153-4 PN 6ES7 153-4AA01-0XB0
RJ45 interface	yes (copper)
Fiber-optic interface	no
Identification data	yes
Module hot-swapping	Yes (with active bus backplane modules)
Use of function modules (FM) and	Limited
communications processors (CP)	

Time synchronization on PROFIBUS, time stamping of input signals	yes
Use of F modules	no
Use of HART modules	no
Support of isochronous mode	no
Firmware update via bus/micro memory card	yes
Redundancy	no
Configuration change in RUN	
•In the redundant system	no
•In the non-redundant system	no
Time synchronization on PROFINET	no
Time stamping of input signals	no
Certification for hazardous zone 2	yes

Mode of operation

The IM 153-4 PN interface module handles all communication between the modular ET 200M I/O device and the higher-level IO controller via PROFINET.

The inputs and outputs are assigned to the respective IO controller during configuration.

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Parameterization

- STEP 7;
- Configuration is carried out in HW Config; the respective header module is selected from the corresponding HW catalog. The modules are also configured using the corresponding hardware catalog. As of STEP 7 V5.4, SP2 (HSP138)
- External tools;
 Connection to external masters and configuration with external tools is completed using the GSDML file.

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Technical specifications

	6ES7 153-4AA01-0XB0	6ES7 153-4BA00-0XB0
General information		
Vendor identification	002AH	002AH
(VendorID)		
Device identifier (DeviceID)	0302H	0302H
Supply voltage		
24 V DC	Yes	Yes
permissible range, lower limit	20.4 V	20.4 V
(DC)		
permissible range, upper limit	28.8 V	28.8 V
(DC)		
permissible range (ripple	20.4 V	18.5 V
included), lower limit (DC)		
permissible range (ripple	28.8 V	30.2 V
included), upper limit (DC)		

External protection for supply	In a construction with	In a construction with
cables (recommendation)		grounded reference potential,
cables (recommendation)		
	a fuse is necessary for	a fuse is necessary for
	redundant interface modules	redundant interface modules
	(Recommendation: 2.5 A)	(Recommendation: 2.5 A)
Mains buffering		
•Mains/voltage failure stored	5 ms	5 ms
energy time		
Input current		
Current consumption, max.	600 mA	600 mA
Inrush current, typ.	4 A	4 A
I ² t	0.09 A ² ·s	0.09 A ² ·s
Output voltage		
Rated value, 5 V DC	Yes	Yes
Output current		
for backplane bus (5 V DC),	1.5 A	1.5 A
max.		
Power losses		
Power loss, typ.	6 W; Typical	6 W; Typical
Address area		
Addressing volume		
•Outputs	192 byte	192 byte
•Inputs	192 byte	672 byte; Extended HART
		user data
- 1 ago 1000		5101110110110

Hardware configuration		
Number of modules per DP	12	12
slave interface, max.		
Communication functions		
Bus protocol/transmission	PN IO	PN IO
protocol		
Interrupts/diagnostics/status		
information		
Diagnostics indication LED		
•Connection to network LINK	Yes	Yes
(green)		
•Transmit/receive RX/TX	Yes	Yes
(yellow)		
Isolation		
Isolation checked with	500 V DC	Between Profinet and 24 V
		supply: 1500 V AC Between
		functional grounding and 24
		V supply: 500 V DC
Ambient conditions		
Operating temperature		
•Min.	0 °C	0 °C
•max.	60 °C	60 °C
Air pressure		
•Operating altitude above sea	2 000 m	2 000 m
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