



Figure similar

32K CONNECT. MOD. TP1 W. LED PUSH-IN

Connection module TP1 32 channels a. 4x2 terminals f. Potential supply Type: Push-in terminal with LED, VPE=1 unit 50 pole IDC connector for cable

Technical Product Detail Page	<a href="https://i.siemens.com/1P6ES7924-2AA20-0BC0">https://i.siemens.com/1P6ES7924-2AA20-0BC0</a>
target system	SIMATIC S7-1500
suitability for use	Digital I/O modules
product type designation	Fully modular connection
product designation	Connection module
<b>electrical data</b>	
operating voltage	
• at DC / rated value	24 V
• rated value	24 V
• at DC / maximum	28.8 V
ampacity / per pin / maximum	1 A
continuous current / at DC / per signal cable / maximum	1 A
total current / maximum	2 A
display version	
• as status display of the inputs/outputs	LED yellow for "active high"
• for power supply / power LED	Yes; green for 24 V DC O.K.
product function / infeed function	Yes
product component	
• PE connection	No
• shield connection	No
• disconnecter	No
product feature / cross-connectable	No
<b>connection method</b>	
number of terminals	48; 32 x I/O; 8 x L+, 8 x M
number of channels	32
type of connecting terminal	push-in
position / of the terminal	Top
number of terminal levels	1
design of terminal / terminal levels internally linked	No
type of electrical connection / for connecting cable	Plug-in connection
number of poles / at the 1st interface	50; IDC connector with installed strain relief for the connecting cable
number of the plug contacts / of the electrical connection	1
wire length / maximum	30 m; between front connector module and Connection module
type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
• for flexible conductor / with core end processing	0.2 ... 2.5 mm <sup>2</sup> ; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar
• stranded	0.2 ... 2.5 mm <sup>2</sup>

<ul style="list-style-type: none"> <li>finely stranded / without core end processing</li> </ul>	0.2 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded / with core end processing</li> </ul>	0.2 ... 2.5 mm <sup>2</sup>
number of cables / per connection	2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule.
width of screwdriver blade	3.5 mm

#### standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> <li>cULus approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>ATEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>ULhazloc approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>UKEX</li> </ul>	Yes
<ul style="list-style-type: none"> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes
design tested acc. to type of protection / EEx e	Yes
overvoltage category	2
degree of pollution	2
combustibility class according to UL 94	V1

#### standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	141.3 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	1.7 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	139.5 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.16 kg

#### ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C

#### mechanical data

width × height × depth	100 mm × 76 mm × 60 mm
mounting type	DIN rail 35 mm, DIN rail 15 mm
mounting position	any
height / with lowest-profile installation	60 mm
net weight	0.21 kg
insulation material	other
color	
<ul style="list-style-type: none"> <li>of the enclosure</li> </ul>	grey
<ul style="list-style-type: none"> <li>of the light source</li> </ul>	other
product component / required / end cover plate	No

#### further information / internet links

internet link	
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to web page: system cabling</li> </ul>	<a href="https://siemens.com/simatic-top-connect">https://siemens.com/simatic-top-connect</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### additional information

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
marketing text	The TP1 connection module for a 1-wire connection with 32 channels and potential connection with push-in terminals with LED for signalling forms the interface between the connecting cables of the peripherals brought in from the field and the SIMATIC S7. This is mounted on the DIN rail and, thanks to its functionality with push-in terminals, is precisely adapted to the respective task. This connection module is part of the fully modular SIMATIC TOP connect connection for the fastest and safest system cabling. In addition to low wiring costs, error sources in cabling can be significantly reduced. Sensors and actuators from the peripherals are combined with the connection modules of SIMATIC TOP connect and connected to the SIMATIC S7-300/1500 via cable and front plug-in module.

#### Classifications

		Version	Classification
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eClass	14	27-25-01-12
eClass	12	27-14-11-28
eClass	9.1	27-14-11-28
eClass	9	27-14-11-28
eClass	8	27-14-11-28
eClass	7.1	27-14-11-28
eClass	6	27-14-11-28
ETIM	10	EC000900
ETIM	9	EC000900
ETIM	8	EC000900
ETIM	7	EC000900
UNSPSC	15	39-12-14-10

Approvals / Certificates

General Product Approval For use in hazardous locations

[Declaration of Con-  
formity](#)

[Manufacturer Declara-  
tion](#)

[China RoHS](#)



For use in hazardous locations Environment



[CCC-Ex](#)



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