

\*\*\*spare part\*\*\* SIMATIC IPC520A; NVIDIA ARM Carmel (6C); 8 GB RAM, Jetson NX; 4x Ethernet RJ45, 3x USB3.0; 16 GB eMMC; without mounting accessories without accessories



General information	
Product type designation	IPC520A
Installation type/mounting	
Mounting	rail mounting, wall mounting, desk mounting
Design	Box PC, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Processor	
Processor type	NVIDIA Carmel ARM ® v8.2 64-bit CPU, 2x @ 1.5 GHz, 4x @ 1.2 GHz
Graphic	
Graphics controller	384-core NVIDIA Volta™ GPU with 48 Tensor Cores @ 800 MHz
Drives	
SSD	Yes; 16 GB eMMC
Memory	
Type of memory	LPDDR4
Main memory	8 GB RAM
Digital inputs	
Number of digital inputs	4
Input voltage	
<ul style="list-style-type: none"> <li>Type of input voltage</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	24 V DC < 5 V DC > 12 V DC
Input current	
<ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> <li>for signal "1", typ.</li> </ul>	1 mA 2.5 mA
Digital outputs	
Type of digital output	transistor
Number of digital outputs	2
Short-circuit protection	No
Output voltage	
<ul style="list-style-type: none"> <li>Type of output voltage</li> <li>permissible voltage at output, min.</li> <li>permissible voltage at output, max.</li> </ul>	DC 20.4 V 28.8 V
Output current	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> </ul>	0.5 A
Switching frequency	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	10 Hz

• with inductive load, max.	0.5 Hz	
• mechanical, max.	10 Hz	
<b>Interfaces</b>		
Number of industrial Ethernet interfaces	4; 4x RJ45 (2x support PoE PSE IEEE 802.3af 15 W)	
serial interface	1x COM (1x RS 232 / 422 / 485)	
<b>Video interfaces</b>		
• Graphics interface	1x DisplayPort	
<b>Industrial Ethernet</b>		
• Industrial Ethernet interface		
— 100 Mbps	Yes	
— 1000 Mbps	Yes	
<b>Protocols</b>		
<b>Protocols (Ethernet)</b>		
• TCP/IP	Yes	
<b>Interrupts/diagnostics/status information</b>		
LED status display	1x Power, 1x User, 6x DIO	
<b>Integrated Functions</b>		
<b>Monitoring functions</b>		
• Temperature monitoring	Yes	
• Fan	No	
<b>Degree and class of protection</b>		
IP degree of protection	IP20	
<b>Standards, approvals, certificates</b>		
CE mark	Yes	
CSA approval	No; in preparation	
UL approval	Yes; UL 61010-2-201, UL 61010-1	
cULus	Yes; UL 61010-1, UL 61010-2-201	
FM approval	in preparation	
RCM (formerly C-TICK)	Yes; C-Tick	
KC approval	Yes; Reg. No.:R-R-S53-IPC520A	
EAC (formerly Gost-R)	Yes; EAC	
FCC	Yes	
BSMI	in preparation	
<b>Ambient conditions</b>		
<b>Ambient temperature during operation</b>		
• min.	0 °C	
• max.	45 °C	
<b>Ambient temperature during storage/transportation</b>		
• min.	-20 °C	
• max.	70 °C	
<b>Vibrations</b>		
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 500 Hz: 9.8 m/s <sup>2</sup>	
<b>Operating systems</b>		
pre-installed operating system	No	
<b>Dimensions</b>		
Width	234 mm	
Height	129 mm	
Depth	71 mm	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	19-20-01-02
eClass	12	19-20-01-02
eClass	9.1	19-20-01-02
eClass	9	19-20-01-02
eClass	8	19-20-01-02
eClass	7.1	19-20-01-02

eClass	6	19-20-01-02
ETIM	10	EC001413
ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

**Approvals / Certificates**

**General Product Approval**



[Miscellaneous](#)

[Manufacturer Declaration](#)



**General Product Approval**

**Dangerous goods**



[BIS CRS](#)

[China RoHS](#)

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**Dangerous goods**

[Test Summary Report UN 38.3](#)

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