

spare part SIMATIC IPC520A NVIDIA Jetson Xavier NX ARM Carmel(6C); 8 GB RAM 16 GB eMMC+256 GB SSD 4 x Ethernet RJ45, 3 x USB 3.0 no OS



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"> Mains/voltage failure stored energy time 	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; 256 GB SSD
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"> Type of input voltage for signal "0" for signal "1" 	24 V DC < 5 V DC > 12 V DC
Input current	
<ul style="list-style-type: none"> for signal "0", max. (permissible quiescent current) for signal "1", typ. 	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"> Type of output voltage permissible voltage at output, min. permissible voltage at output, max. 	DC 20.4 V 28.8 V
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	0.5 A
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	10 Hz

• with inductive load, max.	0.5 Hz	
• mechanical, max.	10 Hz	
Interfaces		
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)	
Video interfaces		
• Graphics interface	1x DisplayPort	
Industrial Ethernet		
• Industrial Ethernet interface		
— 100 Mbps	Yes	
— 1000 Mbps	Yes	
Protocols		
Protocols (Ethernet)		
• TCP/IP	Yes	
Interrupts/diagnostics/status information		
LED status display	1x Power, 1x User, 6x DIO	
Integrated Functions		
Monitoring functions		
• Temperature monitoring	Yes	
• Fan	No	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
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	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
• max.	40 °C	
Ambient temperature during storage/transportation		
• min.	-20 °C	
• max.	70 °C	
Vibrations		
• 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 ²	
Operating systems		
pre-installed operating system	No	
Dimensions		
Width	234 mm	
Height	129 mm	
Depth	71 mm	
Classifications		
	Version	Classification
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](#)

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