

SIMATIC IoT2000 input/output module, 5x DI 2x AI 2x DQ, ARDUINO Shield for SIMATIC IoT2040 and IoT2050



General information	
Product type designation	IOT2000
Installation type/mounting	
Mounting	On Arduino interface
Design	Plug-in card
Supply voltage	
Type of supply voltage	24 V DC
Digital inputs	
Number of digital inputs	5
Input voltage	
<ul style="list-style-type: none"> Type of input voltage for signal "0" for signal "1" 	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. 	0.9 mA 2.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> at "0" to "1", max. at "1" to "0", max. 	1.5 ms 1.5 ms
Digital outputs	
Type of digital output	transistor
Number of digital outputs	2
Short-circuit protection	Yes
Output voltage	
<ul style="list-style-type: none"> Type of output voltage permissible voltage at output, min. permissible voltage at output, max. 	DC 0 V 28.8 V
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	0.3 A
Parallel switching of two outputs	
<ul style="list-style-type: none"> for uprating 	No
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. with inductive load, max. 	10 Hz 0.5 Hz
Analog inputs	
Number of analog inputs	2
Input ranges	
<ul style="list-style-type: none"> Voltage 	Yes; 0 to 10V

• Current	Yes; 0 to 20 mA	
• Thermocouple	No	
• Resistance thermometer	No	
• Resistance	No	
Input ranges (rated values), voltages		
• 0 to +10 V	Yes	
Input ranges (rated values), currents		
• 0 to 20 mA	Yes	
Analog value generation for the inputs		
Integration and conversion time/resolution per channel		
• Resolution with overrange (bit including sign), max.	9 bit	
Interrupts/diagnostics/status information		
LED status display	No	
Integrated Functions		
Monitoring functions		
• Temperature monitoring	No	
• Fan	No	
Degree and class of protection		
IP (at the front)	n.a.	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes	
cULus	Yes	
KC approval	Yes; For use inside SIMATIC IoT2040	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
• max.	50 °C	
Vibrations		
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ²	
Operating systems		
without operating system	Yes	
Dimensions		
Width	75 mm	
Height	57 mm	
Depth	32 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
IDEA	4	6606
UNSPSC	15	43-21-15-06
Approvals / Certificates		
General Product Approval		



[Manufacturer Declaration](#)



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12/17/2024 