## **SIEMENS**

## **Data sheet**

SIMATIC IoT2040, 2x 10/100 Mbit/s Ethernet RJ45; 1x USB2.0, 1x USB client; SD card slot; 24 V DC industrial power supply



Installation type/mounting	
Design	IoT Gateway, built-in unit
Supply voltage	
Type of supply voltage	24 V DC (9 36 V)
Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Processor	
Processor type	Intel Quark X1020
Drives	
Hard disk	1x microSD card slot
Memory	
Type of memory	DDR3-SDRAM
Main memory	1 GB
Capacity of main memory, max.	1 Gbyte
Hardware configuration	
Slots	
• free slots	1x Arduino, 1x mPCle
<ul> <li>Number of PCI slots</li> </ul>	0
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	0
USB port	1x USB 2.0, 1x USB client
Connection for keyboard/mouse	USB / USB
serial interface	2x COM ports (RS 232, RS 485)
Industrial Ethernet	
<ul> <li>Industrial Ethernet interface</li> </ul>	2x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	No
Integrated Functions	
Monitoring functions	
<ul> <li>Temperature monitoring</li> </ul>	No
<ul><li>Watchdog</li></ul>	Yes
Status LEDs	Yes
● Fan	No
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static electricity	±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fields	

Interference immunity against high frequency radiation	10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80%
	AM acc. to IEC 61000-4-3; 10 V for 150 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
<ul> <li>Interference immunity on supply cables</li> </ul>	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
<ul> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±2 kV in accordance with IEC 61000-4-4, burst, length > 30 m
Interference immunity against voltage surge	
<ul> <li>asymmetric interference</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge asymmetric
symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
<ul> <li>Interference emission via line/AC current cables</li> </ul>	EN 61000-6-4:2007 +A1:2011
Degree and class of protection	
IP degree of protection	IP20
IP (at the front)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
cULus	Yes
KC approval	Yes
EMC	CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 °C to 50 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: $9.8 \text{ m/s}^2$
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	Tested according to IEC 60068-2-27: 150 m/s², 11 ms
Operating systems	
pre-installed operating system	No
without operating system	Yes
Dimensions	
Width	144 mm
Height	90 mm
Depth	53 mm
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