## **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



| General information   |  |
|---|--|
| Product type designation  | IOT2040  |
| 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  |  |
| Temperature monitoring  | No   |
| <ul><li>Watchdog</li></ul>  | Yes  |
| Status LEDs   | Yes  |
| ● Fan   | No   |
| EMC   |  |
| Interference immunity against discharge of static electricity                     |  |
| <ul> <li>Interference immunity against discharge of static electricity</li> </ul> | $\pm 4$ kV contact discharge acc. to IEC 61000-4-2; $\pm 8$ kV air discharge acc. to IEC 61000-4-2 |

| Interference immunity against high-frequency electromagnetic field                   | ds   |
|--|--|
| 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                                    |  |
| Interference immunity on supply cables   | ±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  |  |
| asymmetric interference  | ±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                                 |  |
| Interference emission via line/AC current cables                                     | 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   |  |
| • min.   | 0 °C   |
| • max.   | 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-<br/>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 $$ m/s $^2$   |
| Shock testing  |  |
| Shock load during operation  | Tested according to IEC 60068-2-27: 150 m/s², 11 ms  |
| Operating systems  |  |
| pre-installed operating system   | No   |
| without operating system   | Yes  |
| Dimensions   |  |
| AAP III  | 144 mm   |
| Width  | 144 11111  |
| Height   | 90 mm  |

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