

SIMATIC IOT2040

# Product Data Sheet

**6ES7647-0AA00-1YA2**

Industrial IoT Gateway Computer

| PROCESSOR ARCHITECTURE | MAIN MEMORY CAPACITY | RATED INPUT VOLTAGE | PERMITTED DC INPUT RANGE |
|------------------------|----------------------|---------------------|--------------------------|
| Intel Quark X1020      | 1 GB DDR3 RAM        | 24 V DC             | 9 to 36 V DC             |

Siemens 6ES7647-0AA00-1YA2 is the SIMATIC IOT2040 industrial IoT gateway computer. It provides a programmable connection between compatible industrial data sources and higher-level data processing services.

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## VERIFIED TECHNICAL DATA

|                            |                             |
|----------------------------|-----------------------------|
| Processor architecture     | Intel Quark X1020           |
| Main memory capacity       | 1 GB DDR3 RAM               |
| Rated input voltage        | 24 V DC                     |
| Permitted DC input range   | 9 to 36 V DC                |
| Power demand               | 3.5 W typical; 10 W maximum |
| Ethernet connections       | 2 RJ45, 10/100 Mbit/s       |
| USB host interface         | 1 USB 2.0 host              |
| USB client interface       | 1 USB 2.0 client            |
| Serial communication ports | 2 COM; RS-232/RS-485        |
| Removable storage slot     | 1 microSD                   |

## ADDITIONAL PRODUCT DATA

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|-----------------------------------|------------------------------------------|
| Expansion interfaces              | Arduino UNO-compatible; mini PCI Express |
| Operating temperature             | 0 to 50 deg C                            |
| Transport and storage temperature | -20 to 70 deg C                          |
| Permitted relative humidity       | 5 to 85% at 30 deg C; non-condensing     |
| Ingress protection                | IP20                                     |

## DOCUMENTED USE SETTINGS

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Manufacturing and Industrial Production: Industrial Manufacturing Process Control.

Food Processing and Beverage Production: Food Processing and Packaging.

Water Treatment and Wastewater Processing: Water Supply Process Management.

## SYSTEM COMPATIBILITY

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Select software supported by the SIMATIC IOT2040 and the required controller interfaces. Plan the two Ethernet segments, serial-port operating modes and microSD storage before commissioning.

## PRODUCT EVIDENCE

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Siemens exact-article technical data, 6ES7647-0AA00-1YA2

AMIKON PRODUCT SUPPORT

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