

# Drive System Connect Micro

## Product Sheet and Specific Terms



IQ Drive System Connect Micro is a device for transferring data and allows connectivity to SIDRIVE IQ. Different protocols are supported in order to collect data from different kind of devices.

The IQ Drive System Connect Micro supports transmission of data through a secure internet connection to SIDRIVE IQ to enable cloud-based applications and services.

### Prerequisites

Subscription

IQ Drive System Connect Micro can only be used in conjunction with a valid SIDRIVE IQ subscription.

### Description

General

The IQ Drive System Connect Module based on Siemens Industrial PC (IPC 427E). Connectivity for up to 8 Assets (e.g. 2 Motors + 2 Drives or 1 Motor + 5 Drives or 8 Drives)

<b>Functions</b>	
Field protocol – S7 parameter services	Siemens S7 parameter services (for all SINAMICS CU320-2)
Field protocol – Modbus TCP	Connection to Modbus devices via TCP
Field protocol – FTP	Connection to SINAMICS / SIMOTION devices via FTP (access to CF-card)
Field protocol – HTTPS	Connection to SINAMICS / SIMOTION devices via HTTPS (access to CF-card)
Field protocol – IEC61850 protocol	Connection to SIPROTEC devices via IEC61850 protocol
Field protocol – SFTP client	Connection to a remote SFTP server
Field protocol – Firewire	Connection to Siemens SIPLUS CMS-Hardware
Buffering space for collected data	Up to 150 GB
Proxy Support	Yes
DHCP Support	Yes
Static IP address	No
Security for Mindsphere connection	Connection outbound via HTTPS on port 443 to MindSphere only; no incoming connection accepted; SSL/TLS encryption of data in transit to MindSphere
Security for data acquisition	Connection via HTTPS on port 443; Connection via Siemens S7 parameter services on port 102 Connection via FTP per port 21 Connection via Modbus TCP on port 502 Connection via SFTP Client on port 22 Connection via IEC61850 protocol on port

<b>Installation Type / Mounting</b>	
Mounting	DIN rail

<b>Supply Voltage</b>	
Type of supply voltage	24 V DC, 2 A

<b>Memory</b>	
Type of memory	DDR4 SO-DIMM

Main memory	8 GB
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Interfaces	
USB port	4x USB 3.0 Type A
Serial port	2x serial ports
Industrial Ethernet interfaces	2x 100/1000 Ethernet (RJ45)
Display port	2x DisplayPort V1.2

Ambient Conditions	
Ambient temperature during operation	0 °C up to 55 °C
Relative humidity	Tested according to IEC 60068-2-78: Operation: 5 % to 80 % at 25 °C (no condensation)
Vibration load in operation	Tested according to IEC 60068-2-6: 10 Hz to 58 Hz: 0,075 mm; 58 Hz to 200 Hz: 9.8 m/s <sup>2</sup> (1 g)
Shock load during operation	Tested according to IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks

Software	
DS Connect Software	Pre-installed DS Connect Micro Software

Dimensions	
Width	262 mm
Height	139,7 mm
Depth	55,5 mm

Standards, Approvals, Certificates	
Approval	CE (industry), UL

CE mark	Yes
UL approval	Yes

Export Control Regulations	
AL	AL = N
ECCN	ECCN = 5D992

Security Information	
General	In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept.

Support	
Support	Support may be contacted via phone: +49 (911) 895-7222. Hours of operation are Monday through Friday, 8:00 am to 5:00 pm CET (Germany, Nuremberg) – excluding national and local holidays. Support is available in English and German.

Specific Hardware Terms	
<p><b>1. Subject Matter and Scope</b></p> <p>The following terms and conditions and subordinate thereto, the "<a href="#">International Terms &amp; Conditions for Products</a>" supplemented by the "<a href="#">Software Licensing Conditions</a>" (collectively hereinafter referred to as "<b>Terms</b>") govern the sale and use of SIDRIVE IQ Drive System Connect hardware devices including all software (including firmware) installed on or provided with or in connection with such hardware and related support services (the "<b>Product</b>"). This Product Sheet and other documents which describe and/or further govern the Product are collectively referred to as "<b>Transaction Documents</b>". The Terms and the Transaction Documents constitute together the Product purchase agreement ("<b>Agreement</b>").</p>	
<p><b>2. Use of the Product</b></p> <p>2.1. <b>Prerequisites.</b> The transmission of data from devices, systems and equipment (collectively hereinafter referred to as "<b>Assets</b>") to the cloud-based applications and services known as SIDRIVE IQ ("<b>Platform</b>") through the Product requires that the Asset be SIDRIVE IQ enabled and that you have an active subscription to access the Platform with onboarding information (e.g. token, IDs) to connect the Product to the Platform ("<b>Onboarding Information</b>"). You acknowledge that the mere ownership and/or use of the Product does not grant you or any third party any rights in relation to the use of the Platform.</p> <p>2.2. <b>Responsibility for the use of the Product.</b> You are solely responsible for the use of the Product, regardless of whether the use is undertaken by you, your employees, or any third party that buys, leases, or is otherwise provided with a Product by you and all liabilities or other consequences arising from such use. This does not apply to the extent a damage or breach is caused by our violation of the terms of this Agreement. You will ensure that the use of a Product by you, or your employees, or any third party complies with your obligations under this Agreement. Should you become aware of any violation of your obligations under this Agreement, you will (i) immediately inform us</p>	

thereof in reasonable detail, and (ii) cease to use the Product, and (iii) ensure that the respective employees and third parties cease to use the Product. You are solely responsible for the content, integrity, security, accuracy, and timeliness of data being transferred from a Product to the Platform and vice-versa from the Platform to a Product.

**2.3. Your Rights to Use Software in the Product.** We grant you the non-exclusive, non-transferable, royalty-free and, subject to these Terms, perpetual right to install and use the software installed on or provided with or in connection with the Product solely to configure and use the Product in accordance with this Agreement, with the limited right to transfer the right to use software as specified in this Section 2.3 solely to a third party to which you provide the Product. This license excludes the right to install or use the software for applications other than the Product.

**2.4. Your Obligations when Using the Product.** You are solely responsible for (i) properly using the Product, (ii) making sure that a Product is able to connect to the Platform, (iii) regular monitoring of the content, integrity, security, accuracy and timeliness of the data transmission, (iv) the security of a Product, and (v) the security of your and any third party system or any data stored on such systems. You shall: a) comply with all applicable laws and regulations at all times when using the Product, in particular by obtaining and maintaining at your own expense all necessary permits and registrations, and not violate any third party rights (including without limitation intellectual property rights); b) not translate, disassemble, decompile, reverse engineer or otherwise modify, tamper with, repair or attempt to discover the source code of any software contained in the Product (unless required by applicable laws or expressly permitted otherwise); c) not install additional software or hardware on a Product, unless explicitly permitted by us or our affiliates; d) not create derivative works of, or based on, the Product or any parts of the Product; e) not engage in any activity or modification or attempt to modify the Product in such a way as to negatively impact on the performance of the Platform; f) use the Product only to transmit data from Assets to the Platform; g) use the software installed on the Product only in connection with your use of the Product; and h) carefully store any Onboarding Information and protect them from unauthorized access and only use Onboarding Information for the Product for which it was created.

**2.5. Security Obligations.** You shall ensure that your use of the Product will not: (i) constitute a threat to the security or functionality of the Platform; (ii) adversely impact the Platform, us or any third party; or (iii) subject Siemens or any third party to liability. Further, you shall: (a) during the use of the Product and before transferring data take all reasonable precautions against security attacks, including appropriate measures to prevent viruses, trojan horses or other programs that may damage the Product or data that shall be transmitted through the Product; (b) not interfere with or disrupt the integrity or performance of the Product or other equipment or networks connected to the Platform, and in particular not transmit any content containing viruses, trojan horses or other programs that may damage software through the Product; (c) not use the Product in a way that could damage, disable, overburden, impair or compromise any of Siemens' systems or their security or interfere with users of the Platform.

**2.6. Updates.** Siemens may, at our sole discretion, make available software updates or security patches for the Product and will provide reasonable notice when such updates or security patches are available. Separate terms and conditions may apply to the download or other installation of such updates or security patches, but these Terms will apply to your use of such update or security patch. A Product with older firmware may not be able to be updated to the current version. A Product running with outdated firmware may not be able to transmit data to the Platform. As such, you shall, and you shall ensure that future recipients of the Product shall update the Product without undue delay after the publication of such updates and patches for the Product. Data collected during an update procedure may be lost. We disclaim all warranty and liability for such data loss.

#### **4. Intellectual Property Rights**

**4.1. Intellectual Property Rights in the Product.** All intellectual property rights in and to the Product, including any know-how and any part and improvement thereof, shall remain wholly vested in Siemens or its third party business partners and/or licensors. You grant Siemens a worldwide, perpetual, irrevocable, transferable, sublicensable, fully paid, royalty-free license to use any suggestion, recommendation, feature request, or other feedback related to the Product provided by or on your behalf.

**4.2. Third Party Software.** This Product contains third party software and/or services, including open source software, (collectively hereinafter referred to as "**Third Party Software**"), which are subject to additional or different terms, license rights, or require certain notices by their licensors, which we are obliged to pass on to you as your licensor and to which you agree to abide ("**Third Party Terms**"). With respect to such Third Party Software, those Third Party Terms shall govern your use of such Third Party Software. The Third Party Terms for Siemens Drive System Connect hardware are available in the documentation (e.g. ReadMe\_OSS).

## 5. Indemnification

You will indemnify, and hold Siemens and its suppliers and contractors and each of their respective employees, officers, directors, and representatives harmless from and against, and, at Siemens' option, defend Siemens from and against all claims, liabilities, losses, expenses, damages and costs, including reasonable attorneys' fees, resulting from or arising out of (i) any violation of this Agreement by you or any other person you provided with the Product, regardless of your knowledge; (ii) any claims by any person you provided with the Product; (iii) any use of the Product by you that impacts the security of the Platform or causes any loss of data or content of Siemens or any third party; (iv) any violation of laws or rights of others by your use of the Product; (v) your use of the Product for the operation of or within a system that requires enhanced safety functionalities such as fail-safe or fault-tolerant features to maintain a safe state where it is reasonably foreseeable that failure of the device or system could lead directly to death, personal injury, or catastrophic property damage ("**High Risk System**"), if the functioning of a High Risk System depends on the proper functioning of the Product, or a Product caused the High Risk system to fail.