

DATA COMMUNICATION BETWEEN CONTROL UNIT AND CLOUD

# MACHINE2WEB

## IOT EDGE GATEWAY DATAEAGLE 7050

Using IoT Edge Gateway of Schildknecht AG enables transmitting data from the control unit into the cloud. Thanks to the eSIM card which is operable worldwide systems can be networked in all over the world. So IoT Edge Gateway DATAEAGLE 7050 is the optimal solution for analyzing data of machines in real-time, for remote maintenance, as well as for remote monitoring of systems for predicting component fatigue. This involves new business models for our customers in the form of services for their customers. Data analysis enables an increase in operating costs or improvement of products and services. Data preprocessing in the IoT Edge Gateway allows for data compression, providing for lower mobile radio costs at a standard rate independently of the respective place of installation. Mobile radio features the highest network coverage in the world and thanks to the role-based billing via the portal billing provides for an easy cost assignment according to accurate measuring points as well as accounting. The eSIM card automatically selects the best network among 400 providers (Unsteered Roaming). Devices and data are managed via a portal from which data is transferred into the system (ERP, Cloud) of the customer. Interfaces (OPC UA, RestAPI, MQTT, XML, SMS, Twitter, ftp, Email)) to the customer are freely selectable.

End-to-end encryption and TÜV (German Technical Supervisory association) certification ensures maximum data security. **IoT Edge Gateway DATAEAGLE 7050 speaks the language of all machines. All Ethernet-based fieldbus systems are available as an option.** This enables measuring machine data in all over the world and setting new parameters. As an option, sensors can be connected via Bluetooth Low Energy or additional I/O modules can be connected.





# DATAEAGLE 7050 COMPACT

## TECHNICAL DATA



### o GENERAL

|                           |                   |
|---------------------------|-------------------|
| Voltage supply            | 24 V DC           |
| Connection voltage supply | Terminal clamps   |
| Power consumption         | 200 mA            |
| Fixing                    | DIN rail mounting |
| Protection class          | IP20              |
| Temperature range         | -20...+60 °C      |
| Conformity                | CE                |
| Weight                    | 150 g             |
| Width                     | 22,5 mm           |
| Height                    | 99 mm             |
| Depth                     | 114,5 mm          |
| Color                     | Black             |

### o RADIO TECHNOLOGY

|              |  |
|--------------|--|
| 2G           | 2G 850 MHz / 900MHz / 1800 MHz / 1900 MHz                                  |
| 3G EU        | 2G 900MHz / 1800 MHz; UMTS B1, B8  |
| 3G EU + WiFi | 2G 900MHz / 1800 MHz; UMTS B1, B8; 802.11 b/g/n                            |
| 3G US        | 2G 850 MHz / 1900 MHz; UMTS B2, B5   |
| 3G World     | 2G 850 MHz / 900MHz / 1800 MHz / 1900 MHz;<br>UMTS B1, B2, B5, B6, B8, B19 |
| 4G           | coming soon  |
| 5G           | in preparation   |

### o INTERFACE

|               |  |
|---------------|--|
| Interface     | RJ 45  |
| 2-port Switch | Yes  |
| Fieldbus      | EtherCAT<br>Ethernet/IP<br>Modbus TCP<br>ETHERNET POWERLINK<br>PROFINET<br>VARAN<br>sercos |

### o OPTION

Bluetooth Low Energy