

# IOT EDGE GATEWAY DATAEAGLE 7051

## Retrofit: Cloud Connectivity for Machines

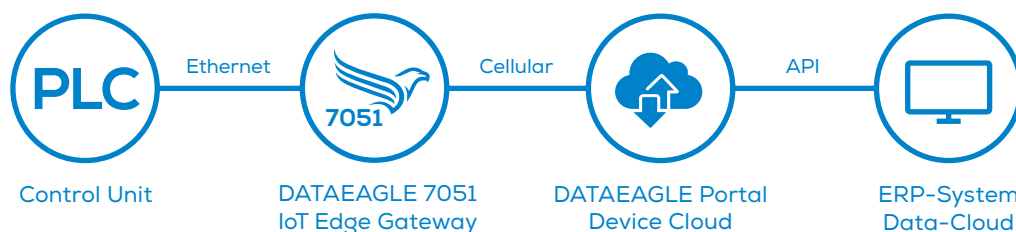
The IoT Edge Gateway transmits data from control units to a Cloud. Operating with a globally applicable eSIM card the DATAEAGLE 7051 enables to network sensors, machinery and production facilities on a global scale. This opens up a range of new application areas, like analysing data in real-time or remote monitoring of facilities and buildings (Predictive Maintenance). The gateway itself is designed for cost-effective operation: Pre-processing and minimizing the plc data it receives to lower transmission costs and sending data at a flat rate, regardless of its location. Optimal global operability is secured by using mobile radio, a solution that offers the highest network coverage globally, together with simple and precise billing. End-to-end encryption ensures maximum data security.

Accon-AGLink by Delta Logic is a well-known communication library that is used for a smooth data exchange between the plc world and industrial PCs. The DATAEAGLE 7051 with Accon-AGLink integrated is able to request data from Siemens control units via the Device Cloud. Service people with plc know-how don't have to be local anymore. The DATAEAGLE 7051 gets relevant parameters over the air (OTA) from the Device Cloud the DATAEAGLE Portal.

The following Siemens plcs are supported:

S5, S2-200, S7-300/S7-400 (H), S7-1200/S7-1500 and S7 compatible plcs such as Vipa, Saia, Berthel, LOGO! 0BA7, LOGO! 0BA8, SINUMERIK 840D, MicroMaster and SINAMICS and devices with the protocol 3964/3964R, RK512, or RFC1006.

### WIRELESS DATA COMMUNICATION BETWEEN CONTROL UNIT AND CLOUD



**SIEMENS**

**DELTA LOGIC**  
THE RAINIER HONEY COMPANY

ETHERNET/TCP IP

Windows Azure

## DATAEAGLE BEACON

Bluetooth Beacons revolutionize Track & Trace applications

The DATAEAGLE Beacon is a small Bluetooth Low Energy (BT 4.2) radio transmitter, which sends short signals for orientation, presence detection or information transmission to the nearby environment. The Beacon can be operated by either battery or 24V DC, and devices with a Bluetooth interface, e.g. DATAEAGLE 2730 radio systems, smartphones or tablets, can receive data up to 30 metres away. Furthermore, the DATAEAGLE Beacon is a device platform that can be equipped with various functions. In its simplest form the localised function works with the transmitted or received signal strength indicator (RSSI) and Universally Unique Identifier (UUID); however The DATAEAGLE Beacon is a device platform that can be equipped with various functions, including an integrated memory and bidirectional data exchange on fixed or moving parts (data can be exchanged during movement). In comparison, RFID tags must be positioned at close range, but this is not the case with the DATAEAGLE Beacon.

Bluetooth beacons play an important role in Industry 4.0 as they allow objects to communicate with each other. Thus, industrial production processes are improved by the connectivity and identification of its workpieces, machines and persons. When used in combination with a sensor gateway, such as DATAEAGLE 2730, the DATAEAGLE Beacon will transmit selected data to a control system or to the Cloud.



- Localization of objects
- Detection & identification of objects
- Information exchange & data storage
- Up to 30 meters range
- Up to 1 year battery life

