

BAUTEK GATEWAY INDUSTRY 4.0 & IIOT



BAUTEK BİLGİ TEKNOLOJİLERİ

DİJİTAL DÖNÜŞÜM YOLCULUĞUNUZDA PUSULANIZ.

Dijital dönüşüm yolculuğunuzun neresindesiniz? Nereden başlayacağınızı biliyor musunuz? Kapsamlı bir dijital dönüşüm stratejisi, işletmeniz için sürdürülebilir bir geleceğe giden yol haritanızı oluşturur.

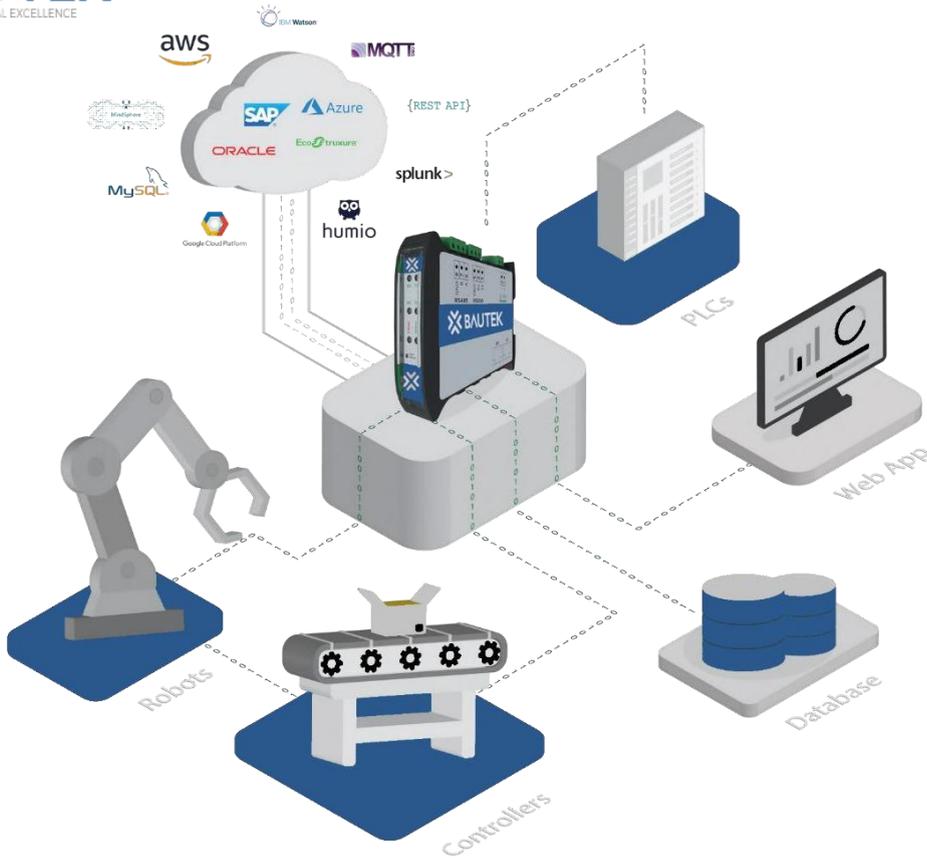
BAUTEK, "Operasyonel Mükemmellik" mottosuyla operasyonlarınızı dijitalleştirerek daha etkili ve daha yüksek performansla yönetmenizi sağlıyor. Dijitalizasyon çözümlerimizle sıfır karbon emisyonu hedeflerinize ulaşabilir, yenilenebilir enerji dönüşümlerinizi gerçekleştirebilirsiniz. Böylece operasyonlarınızı daha sürdürülebilir ve daha verimli bir hale getirebilir, OPEX harcamalarını optimize ederek maliyet tasarrufları sağlayabilirsiniz. Yatırımlarınızdan maksimum getiriye elde etmek için ihtiyacınız olan en doğru optimizasyon stratejilerini dijital dönüşüm çözümlerimiz ile keşfetmeye başlayın. Türkiye'de ve dünyada öncü markaların tercihi, kendini kanıtlamış kapsamlı dijitalizasyon çözümlerimizle operasyonel süreçlerden yönetsel süreçlere tüm faaliyetlerinizi optimize edebilir, zaman ve mekân sınırlaması olmadan **7/24** yönetebilirsiniz.

Operasyonel Mükemmellik sağlayan Dijitalizasyon Çözümlerimiz;

- SCADA Çözümleri,
- Endüstriyel IT/OT (System) Platform Çözümleri,
- MES - Üretim Yönetim Sistemi Çözümleri
- Merkezileştirme ve Uzaktan İzleme Sistemleri,
- Endüstriyel Veri Toplama (Historian) ve Raporlama Çözümleri,
- İş Zekâsı ve Analitik - Raporlama Çözümleri,
- OT PLC-SCADA Uygulama Yedek ve Değişim Yönetim Çözümleri,
- Bulut Veri Toplama ve OEE Yönetimi Çözümleri,
- İş Akış Yönetim Sistemi Çözümleri,
- Mobil Bakım Yönetim ve Veri Toplama Çözümleri,
- Reçete ve Batch Yönetim Çözümleri,
- Varlık ve Kestirimci Bakım Yönetimi,
- Alarm Yönetim ve OPC Server (Tunneler) Çözümleri,
- ERP Entegrasyon Çözümleri ve daha fazlası...

Ayrıca sektör bazında, işletmelerin dijital ihtiyaçlarına ve dijital dönüşümlerini tamamlamalarına yönelik sunduğumuz endüstriyel yazılım çözümleri hakkında detaylı bilgi almak, teknik döküman ve demo uygulamalarını incelemek için bizimle iletişime geçebilirsiniz.





REDUCE COST OF IIOT & INDUSTRY 4.0 IMPLEMENTATIONS

by simplifying data exchange to the shop floor

BAUTEK Industrial Gateway is an edge gateway that simplifies the unification and convergence of data between IT and OT (Operational Technology).

It empowers analytic tools & data driven decisions by releasing valuable data from industrial and building shop floors. It applies a non-intrusive approach with a high degree of flexibility:

- native access to all legacy operational systems
- bi-directional data exchange with any IT system

This is done without the hassle of programming and complex configuration.



**GATEWAY
CLOUD, IT/ OT**



**PROTOCOL
CONVERTER**



DATA LOGGER



Industry 4.0 & IIoT

With access to more than 30+ industrial protocols & millions of devices BAUTEK Industrial Gateway secures full transparency across data sources. Its ability to bi-directionally exchange data across systems enables dataflows and feed-back across operation & enterprise and can further enable AI algorithms & Machine Learning.

- ◆ OEE key metrics & condition based monitoring
- ◆ Connected factories & machinery fleet management
- ◆ Enabling AI & ML for predictive maintenance & performance

Smart Building

Commercial & public buildings contain lots of valuable but hidden data. Release the hidden potential of your buildings with BAUTEK Industrial Gateway by non-intrusive data exchange with Building Management Systems, solar

- ◆ Detection of leaks & consumption abnormalities
- ◆ ESG reporting & building optimization
- ◆ Indoor environment & air quality measuring



IT / OT convergence

With a flexible support for bi-directional SQL queries, open API backend & OPC-UA server BAUTEK Industrial Gateway provides a faster and more streamlined approach to data flowing between Information Technology (IT) in enterprise systems and Operational Technology (OT).

- ◆ Paperless production & ERP integration
- ◆ Convergence between shop floor & enterprise systems
- ◆ Activity based tracking of batches, orders & recipes



PROTOCOLS TECHNOLOGIES

Industrial & Building



Clouds & IT



KEY FEATURES

01

DEVICE AGNOSTIC

30+ protocols and technologies supported - all major vendors of PLCs, robots, BMS and meters are guaranteed compatible.

02

SQL INTEGRATION

Customizable SQL queries provides a simple direct integration to IT & enterprise systems.

03

BI-DIRECTIONAL DATA EXCHANGE

Bi-directional data exchange between systems enables smart data flows and feedback loops across systems and devices.

04

NON-INVASIVE

Connect your operational devices and IT infrastructure in non-invasive push-pull approach, which ensures seamless implementation.

05

EDGE COMPUTING

Setup smart rules & conditions to decide on data exchange along with smart processing functions to process the data

06

OPEN & REMOTE API TAILORED FOR OEM

Integrate as OEM and strengthen your solution - building on the open architecture and provided API with remote option.



OPC UA SERVER

The integrated OPC-UA server allows yet another easy bi-directional data integration and unification across machines, sensors and enterprise systems. Convert any of the many supported devices, sensors and systems to OPC-UA. Powered by BAUTEK Industrial Gateway 's strong OPC-UA server engine.

SUPERIOR CLOUD GATEWAY

Contextualization & Data normalization

Let BAUTEK Industrial Gateway enrich your cloud data with necessary metadata - to put it into the right context. Aspire for full transparency into operational datasets for optimal decision making.

Offline Redundancy

No matter if you are online or have a glitch BAUTEK Industrial Gateway guarantees access to your data. The internal fallback buffer keeps your data and retransmits it when online.

Native Cloud Support

Support for any MQTT & REST API backend with customizable payloads provides direct and native integration to any cloud.

Azure & Aws Certified

Certified as IoT gateway on Azure & AWS with native support - this simplifies implementation and ensures a seamless integration of bi-directional data access.

Secure Connections

High security is guaranteed with encrypted connections between BAUTEK Industrial Gateway and any secure cloud - your data will stay safe.

Remote Management

BAUTEK Industrial Gateway 's open API and ability for remote accessing it ensures seamless integration into your platform & ability to implement fleet management.

Data Logger for any application and purpose



25 M+ samples storage

Extensive software memory with integrated chart tool.



Data access & export

Export the logged data to CSV or access it using Open API.



Triggers & Processing

Advanced triggers and filters ensure high quality of data.



Software & HW editions	Docker or Hardware w. software
Dimensions	119,5 mm x 101mm x 22.5mm
Enclosure type	DIN rail 35mm (EN 60715)
Enclosure material	Blend PC/ABS self-extinguishing
Storage & RAM	8GB / 512MB
Processor	Cortex-A7 / A53 Quad core 1GHz
Network	10M/100M + 10M/100M Ethernet
Power input	10V - 30 V / 1.5A
Operating temperature	-20 C° - +70 C°
Certifications & Approvals	FCC Part 15 Subpart B ANSI C63.4:2014 EN 55032:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 + A1:2019 EN 55035:2017 EN 62368- 1:2014+A11:2017
Configuration tools:	Web-based GUI & REST API
Supported protocols:	<p>OPC-UA client & server, Modbus TCP, Modbus RTU, BACnet IP, BACnet MS/TP, M-Bus, M-Bus Wireless Siemens S7, !LOGO & TI505, AB Ethernet/IP, Omron FINS & HostLink, Mitsubishi MC, Beckhoff TwinCAT ADS, Schneider, Universal Robots RTDE, Keyence KV, IFM VSE</p> <p>Microsoft SQL , Azure SQL, Oracle , MySQL MariaDB, IBM DB2, MongoDB, Postgre SQL ,SQLite</p> <p>MQTT, REST API's, Azure IoT Hub, Mindsphere AWS, Google Cloud, Cumulocity, ThingWorx and many more..</p>



BAUTEK Bilgi Teknolojileri



www.bautek-tr.com



**BAUTEK Endüstriyel Otomasyon
Yazılım Çözümleri**

