

Industrial Data Gateway (IDG)

Complete Data Connectivity for Control Automation
at the Edge and Beyond



Welcome to the next level of no-compromise open data connectivity wherever you need it. Get convenient, secure, and reliable access to virtually all your control automation data sources regardless of the vendor they are from or where they are located. Welcome to the world of the Matrikon® Industrial Data Gateway.

Rugged Data Connectivity for Every Location

Equally at home in harsh climates, remote locations, and on the shop-floor, the rugged Matrikon® Industrial Data Gateway (IDG) provides you with a complete 3rd party control automation data connectivity solution in a single, compact data appliance.

No Data Source Left Behind | All Data Sources Welcome

Built for today's evolving infrastructures, IDG enables you to readily mix twenty-year-old legacy systems with current and new technologies via a single solution. As such, the IDG is equally adept at moving your data to the Microsoft Azure cloud as it is in tackling some of your toughest data connectivity challenges like:

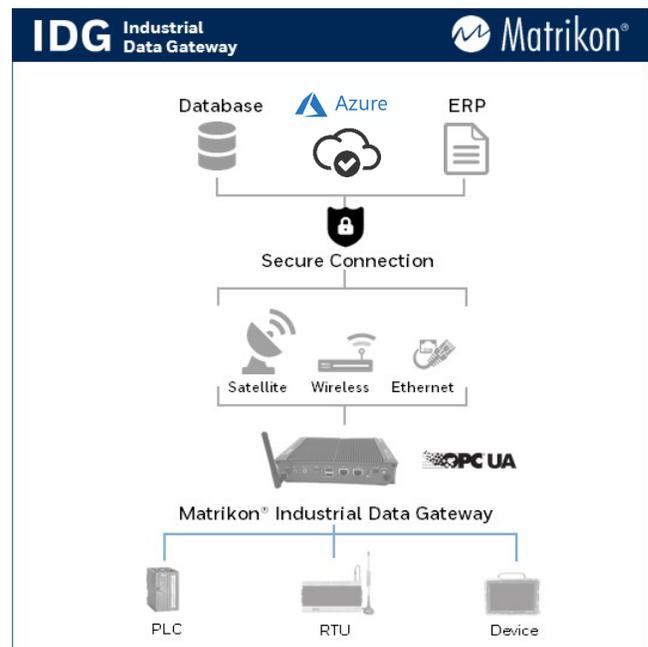
- Gaining open connectivity to 3rd party legacy and proprietary data sources
- Mixing OPC UA and OPC Classic components
- Securing OPC Classic communications
- Preventing remote data losses from unreliable networks connections to central historians
- Providing on-site users with immediate access to the data they need
- And many more...

Peace of Mind Solution

Combining award winning Matrikon® industrial data connectivity driver and data management applications with a ruggedized IIoT Edge appliance hardware platform, IDG provides unmatched 3rd-party connectivity for your existing proprietary, OPC Classic, and OPC UA based PLCs, devices, and applications.

Sit back, relax, and let IDG securely and reliably facilitate open 3rd party data connectivity when and where you need it. For example:

- authorized users in the field will have access to all the real-time and historical data they need right on-site
- Remote data delivery to your central historian via assured store-and-forward technology



Comprehensive Data Access and Management

Beyond its compact, rugged construction and ease of use, the true value of the Matrikon® Industrial Data Gateway comes from the functionality it packs within. IDG enables you to effectively deal with the real-world challenges of ensuring all your data makes it securely and reliably from point A to point B.

Feature	Detail
Complete Control Automation Data Connectivity	<p>Built for the reality of the mixed-vendor infrastructures in real-world infrastructures, IDG stands out by delivering data connectivity using award winning Matrikon® solutions for virtually any combination of:</p> <ul style="list-style-type: none"> - New and Legacy components - Proprietary protocols - OPC Classic and OPC UA based components <p>Different IDG configurations are available. Each of these facilitates data connectivity to different device families (but may be customized to suit your purposes). Current models include:</p> <ul style="list-style-type: none"> • PLC Industrial Data Gateway • Building Automation Industrial Data Gateway • Power Industrial Data Gateway • SCADA Industrial Data Gateway
IIoT Edge to Cloud Connectivity 	<p>IDG natively supports the use of the Microsoft Azure IoT Hub to help you take advantage of the best of what the Industrial Internet of Things has to offer.</p> <p>From Azure cloud storage, machine learning, big data analytics, dashboarding, and so much more, Matrikon IDG enables you to connect your edge data sources into this new and exciting technology.</p>
Smart Store-and-Forwarding for Assured Data Delivery	<p>IDG offers continuous on-site data archiving to ensure all your site data is properly centralized in unreliable network environments.</p> <p>Key store-and-forward highlights include:</p> <ul style="list-style-type: none"> - Active connection health monitoring - configurable connection health watchdogs - automatic data transfer resumption for guaranteed delivery no matter how often connections are dropped - permanent history storage or circular buffering modes
Historians & Databases Supported	<p>IDG delivers data directly to your central repository. Standard databases, such as Oracle and Microsoft SQL Server are supported, and more commonly, process historians, such as, OSI PI, Aspen's IP.21, Wonderware InSQL/Intouch and many more.</p>
Edge Data Calculations	<p>Do more with your data right at the edge with the optional Matrikon® EdgeCalc software that enables you to:</p> <ul style="list-style-type: none"> - Graphically lay-out complex logic and calculations - Utilize data from multiple sources - Expose results as new OPC items or write them back to existing OPC items

	<ul style="list-style-type: none"> - Monitor calculation execution times to ensure results are generated within acceptable time frames - And much more
IT/OT Friendly Security	<p>IDG utilizes leading security technologies like OPC UA security for:</p> <ul style="list-style-type: none"> - Certificate based trust establishment - Strong data encryption - Firewall friendly communications - Eliminates use of DCOM for OPC Classic sources <p>IDG also provides administrative security:</p> <ul style="list-style-type: none"> • Application white listing used to restrict what application can run on IDG • Locks down ports • User access is fully controlled.
Support	<p>IDG comes with the industry leading Matrikon live 24/7 Customer support. This gives you maximum peace of mind during deployment and if you happen to need help down the line.</p>
Future Friendly Extendible Functionality	<p>Technology keeps changing and Matrikon® IDG was built to keep pace. IDG allows you to update and expand the technology it has on-board to ensure you get maximum value from it today and in the future.</p>
Hardware Optimized for Longevity	<ul style="list-style-type: none"> • Fanless: Built for maximum lifespan, the IDG design eliminated the fan, which is the most damage prone element. • Dust proof design: Solid chassis design with a fanless interior makes this product dustproof when installed correctly – further ensuring its longevity. • Screw-locked power plug: The power plug screws directly into the IDG chassis, ensuring the power connection stays put in demanding environments. • Cable-free interior: The interior of this product contains no wires, making this industrial product as rugged as possible.

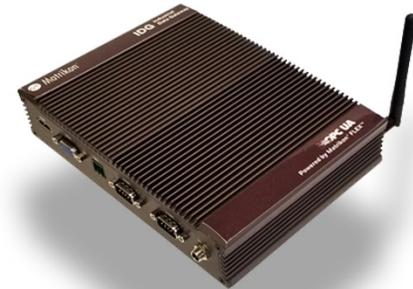
Learn More about Matrikon Industrial Data Gateway



Hardware

Technical Specifications

- Dimensions (WxHxD): 198x42x144.8mm (7.79"x1.65"x5.7")
- Processor: Intel® Celeron® J1900
- Hard Drive 128GB SSD (Upgrade to 512GB SSD is available for additional cost)
- Memory: DDR3L onboard 4GB
- 2*COM, 2*USB 2.0, 1*USB3.0
- LAN: 2 x 10/100/1000Mbps, Auto sensing, RJ-45
- Display: VGA x 1 (1600 x 1200), HDMI x 1 (1920 x 1080)
- Operating Temperature -20~55 °C
- Power Input: +12 V DC
- Power Consumption: 19W



Standard Accessories

- Rubber Foot
- 60W 12V/5A, Terminal Block
- Wi-Fi Module
- DIN RAIL and Wall Mount Kit



Optional Power Cords

- US Power Cord
- Schuko (EU) Power Cord
- UK Power Cord
- China Power Cord
- Japan Power Cord
- Australia Power Cord

*Any one of them will be included as part of the order

Optional Mounting Brackets

- VESA Mount
- RACK Mount

PLC IDG

Product Name	License
OPC Desktop Historian (ODH)	Included
OPC UA Tunneller (UAT)	Included
Easy Trender	Included
OPC Redundancy Broker (ORB)	Included
EdgeCalc*	Option
Allen Bradley	Included
Modbus	Included
GE PLCs	Included
Siemens PLCs	Included
Mitsubishi PLCs	Included
WITS	Included
File Collector	Option
Perfmon	Option
OPC Explorer	Included
HDA Explorer	Included
1 Year Warranty	Included
Store and Forward*	Option

* License to be purchased by customer

Building Automation IDG

Product Name	License
OPC Desktop Historian (ODH)	Included
OPC UA Tunneller (UAT)	Included
Easy Trender	Included
OPC Redundancy Broker (ORB)	Included
EdgeCalc*	Option
BACNet	Included
Johnson Controls N2	Included
Lonworks	Included
KNX	Included
SNMP	Included
Modbus	Included
File Collector	Option
Perfmon	Option
OPC Explorer	Included
HDA Explorer	Included
1 Year Warranty	Included
Store and Forward*	Option

* License to be purchased by customer

Power IDG

Product Name	License
OPC Desktop Historian (ODH)	Included
OPC UA Tunneller (UAT)	Included
Easy Trender	Included
OPC Redundancy Broker (ORB)	Included
EdgeCalc*	Option
Vestas	Included
Mitsubishi Wind Turbines	Included
GE Turbines	Included
IEC 61850	Included
DNP3	Included
File Collector	Option
Perfmon	Option
OPC Explorer	Included
HDA Explorer	Included
1 Year Warranty	Included
Store and Forward*	Option

* License to be purchased by customer

SCADA IDG

Product Name	License
OPC Desktop Historian (ODH)	Included
OPC UA Tunneller (UAT)	Included
Easy Trender	Included
OPC Redundancy Broker (ORB)	Included
EdgeCalc*	Option
DNP3	Included
SCADA Modbus	Included
OMNI Flow	Included
IEC 60870	Included
File Collector	Option
Perfmon	Option
OPC Explorer	Included
HDA Explorer	Included
1 Year Warranty	Included
Store and Forward*	Option

* License to be purchased by customer

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