

InGateway502 IoT Edge Gateway

Edge-to-cloud Data Acquisition Configured in Minutes

The InGateway502 is a new-generation **IoT edge gateway** designed for industrial IoT. With pre-integrated industrial protocols such as Modbus TCP/RTU and IoT clouds like MS Azure and AWS, the IG502 makes it easy to collect data from different onsite devices, validate data and upload them to the cloud – and the configuration takes only a few minutes without any programming.

The IG502 was awarded “Honorable Mention” of the **Control Engineering 2022 Engineers' Choice Awards**.



Advantages

Powerful edge computing capabilities

- + ARM Cortex-A8 processor, 600MHz
- + 512MB RAM
- + 8GB eMMC FLASH

Data acquisition configured in minutes with DeviceSupervisor™ Agent

- + Multiple industrial protocols supported: Modbus TCP/RTU, EtherNet/IP, ISO on TCP, OPC UA Client, etc.
- + Major IoT clouds supported: AWS, Azure, etc.
- + Easy configuration, little IT knowledge required

Reliable communications

- + Dual SIM, carrier failover
- + Embedded watchdog, auto recovery
- + Auto-link detection mechanism

Extensive interfaces for various devices

- + 2*10/100Mbps Ethernet port, 1*WAN+1*LAN or 2*LAN
- + 1*RS232, 1*RS485 or 2*RS485, industrial terminal block
- + Updated I/O supports pulse input/output, 4*DI, 4*DO (optional)
- + Supports Wi-Fi (optional) and GPS (optional)

Industrial design

- + Wide temperature and voltage range: -20°C ~70°C, 12~48VDC
- + IP30, EMC Level 3

Remote management made easy with Device Manager

- + Support for web interface
- + Remote monitoring and management, free from travel
- + Batch configuration

Networking Scheme



Applications



Industrial Robots

The IG502 helps collect data from fast-moving robotic arms at intervals between 100ms to 200ms. With 8GB Flash and 512 RAM, the IG502 enables data filtering and pre-processing on the IoT edge, ensuring that data is real-time.



IVD Medical Devices

Data from IVD devices go through the IG502 via LAN ports. Some of the data are processed locally so that the cloud is not overloaded. Meanwhile, operation status of the devices is constantly monitored so that preventive maintenance can be carried out in time.



Air Compressors

The IG502 collects different variables from the air compressor controller, including pressure, temperature, etc. upload them in real time so the machines can be centrally monitored. Through remote upgrading and debugging, the IG502 helps enhance efficiency and cut downtime.



Sewage Disposal Works

The IG502 helps collect real-time operation data of PLCs and HMIs and upload them to the cloud, so that equipment conditions can be constantly viewed and centrally managed. With fault alarm received and handled in time, equipment can be maintained properly and thus deliver better services.



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43671 Trade Center Place, Suite 100, Dulles, VA 20166, USA
 T: +1 (703) 348-2988 | E: info@inhandnetworks.com
 www.inhandnetworks.com

