SMART SOLUTIONS FOR A CONNECTED WORLD

Utility and Energy IoT Solutions

IED Quest

GridOnCloud™

Splinter

IED QUEST®

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ED QUEST®

CONNECTING DEVICES, ENABLING EXCELLENCE

Introduction

At IED Quest, we specialize in developing innovative solutions that seamlessly integrate advanced IoT technologies with industrial automation systems, empowering businesses to optimize their energy consumption, enhance operational efficiency, and reduce environmental impact.

Our innovative software and hardware solutions can be tailored as per your project requirements and offer the best in class performance and still be cost effective.

Distributed Energy Resources

- Solar power management
- Wind power management
- Geothermal energy management
- Weather station monitoring
- Power generation efficiency
- Energy storage monitoring

Factory Environment

- Facility energy management
- Wastewater discharge
- Continuous emission monitoring systems
- Volatile organic compounds monitoring
- Industrial park energy management

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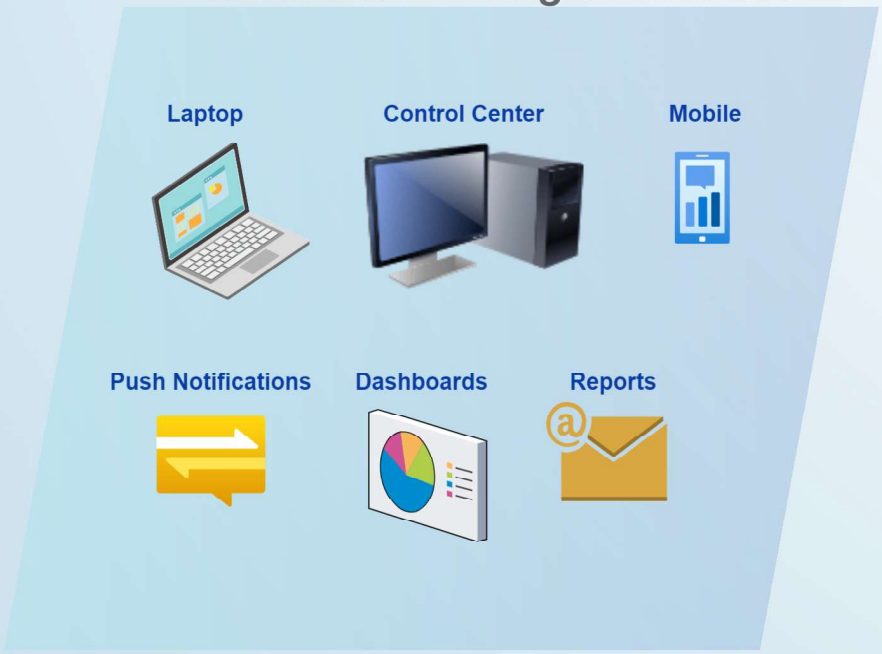
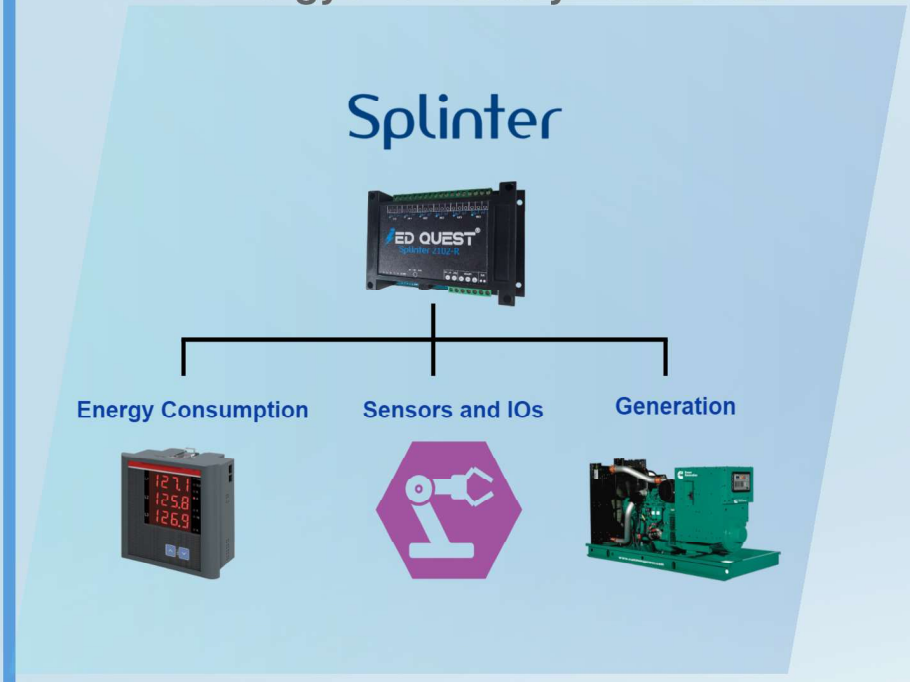
Remote Monitoring and Control



Gridon

Energy and Factory Automation



Realtime Equipment Status Monitoring

Alarm Management and Custom Rules

Smart Cloud based Engineering

System Design

Remote Device Configuration

Audit Log

Data Analytics

OTA Firmware Update

Cloud™

HVAC and Renewable Systems

Splinter

HVAC Equipment

Inverter

Distributed Equipment

On-Demand and Automated Reports

Asset Management and Configuration

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SOFTWARE SOLUTIONS

GridOnCloud™

Remote Monitoring and Analytics platform for Industry 4.0
by IED Quest®

Facility Management

from the cloud

- Remote monitoring
- Data Analytics
- Thin web client support
- Cloud deployment support
- Custom dashboards
- Multi-site support
- Multi-tenant support
- Role based authorization
- Real-time/Historical values, alarms & trends
- Export reports
- Event logs
- Redundancy support

GridOnCloud

IED Quest's GridOnCloud is a state-of-the-art platform aimed to ease your organization's journey towards digital transformation. In this era of the 4th Industrial revolution (Industry 4.0), we are proud to offer our customers, a solution that is developed on the latest technologies and exploits the full potentially of IIoT (Industrial Internet of Things).

To ensure security of the entire system we have integrated secure authentication and authorization, database backups, Embedded security solutions & mechanisms for safety against DDoS attacks, SQL injection and more. We also offer a vast range of deployment options ranging from public/ private/hybrid clouds or on-premises local servers.

Engineering and Monitoring can all be done via GridOnCloud's web portal. The client devices are truly thin and do not need any custom software installation, be it mobile, PC or tablets. Specially built for industrial automation and smartgrids, the platform provides easy integration with your existing systems.

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Scalable control & monitoring platform for all your Industrial Automation needs

Custom dashboards

Designed to uncomplicated your monitoring experience, GridOnCloud's dashboards can be customized easily & are trulyely built for the web, they work fluently on mobile devices, tablets and bigger screens.

Role based access

Role based authorization can be applied to ensure secured access to critical data and control sections. Continuous event logging for all user actions is enabled for easy audits.

Multi-site & Multi-tenant support

One url to monitor multiple geographic sites: www.gridoncloud.com hosted on cloud or your local server. Multi-tenant feature can allow a site to be divide into multiple sections with dedicated access control mechanisms.

Interoperable

Truely interoperable, with support for Modbus RTU/TCP, Mqtt, BACnet, DLMS, IEC 61850 MMS/GOOSE, IEC-60870-101/104 and more. Our Controllers and Gateways can easily interface with existing energy assets.

Alarms & Custom Reports

Alarms can be reported, acknowledged and logged in Historian. Easy monitoring of real-time and historical data can be done in tabular or graphical forms and the reports can be extracted in pdf, csv, excel formats.

Historian & Easy Data analytics

Realtime data value samples, value changes & alarms can be stored to Historian. Time base analytics on data can provide deeper insights, allow to take informed decisions for costs reductions and predictive maintenance.

Platform as a Service (PaaS), GridOnCloud + Splinter series of IoT/RTU controllers

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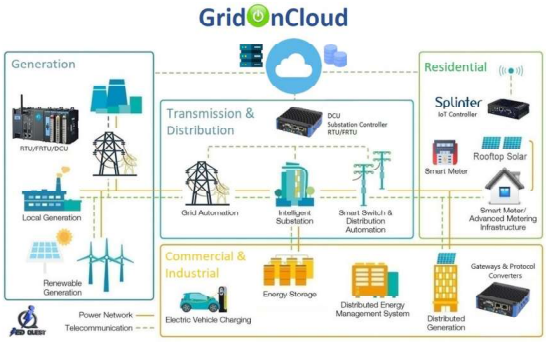
EMPOWERING INNOVATION THROUGH IOT

Splinter

IoT Controllers and Protocol Gateways

High on performance
Low on maintenance

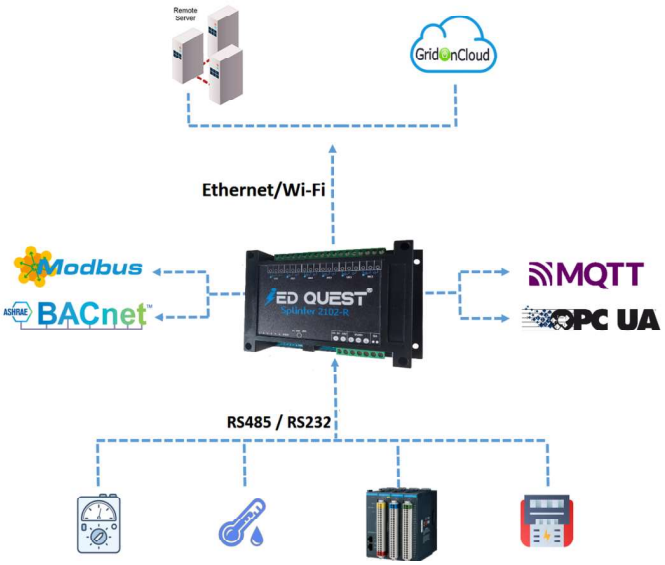


- High compute power
- Local Data storage
- Isolation Protections on all I/O and Communication Ports
- WiFi, LAN and COM ports
- Built-in Digital Inputs and Relay Outputs
- Plug-And-Play Support
- OTA Firmware and Configuration Updates
- Reduced Engineering Costs
- Multiple Protocols Supported
- Remote Debugging and Troubleshooting Support

IED Quest's Splinter series rugged Controllers and gateways are compatible with multiple industrial automation protocols, seamlessly interoperable & offer plug-and-play connectivity with GridOnCloud energy management system. Engineered for smooth connectivity and reliability in demanding environments our controllers significantly reduce the engineering efforts by providing the option for remote OTA (Over The Air) configuration.

Discover our robust devices, with versatile communication capabilities including Serial, LAN, Wi-Fi, and Hardwired IOs. Our devices ensure comprehensive connectivity with your existing or new industrial automation systems.

Splinter series controllers are the idle Modbus Gateways for your OT-to-IT solutions. Trust in our solutions to empower your IoT infrastructure with unparalleled connectivity and resilience.



www.iedquest.com/products

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Splinter 1509

CPU: ARM Quad Core A-53 @ 1GHz
SDRAM: 512MB
Storage: 16GB / 32GB (Optional)
Wi-Fi: 2.4GHz 802.11 b/g/n wireless
Serial: 2 x Isolated RS-485 Ports
Power: Supports 8~28Vdc Isolated Power Supply
RTC: Battery backed RTC CR2032 (optional)

Splinter series controllers are configurable from Cloud

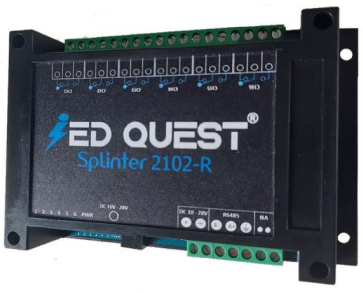
Splinter 1603

CPU: ARM Quad Core A-72 @ 1.5GHz
SDRAM: 1GB LPDDR4-3200
Storage: 8GB eMMC Flash memory
LAN: 1 x Gigabit Ethernet RJ45
Wi-Fi: 2.4 GHz, 5.0 GHz wireless (optional)
Serial: 2 x Isolated RS-485 Ports
USB: 1 x USB-A 2.0
HDMI: 1 x Standard HDMI 2.0 connector
Power: Supports 8~28Vdc Isolated Power Supply
DOs: 3 x Isolated Relay Outputs (optional)
DIs: 3 x Isolated Digital Inputs (optional)
RTC: Battery backed RTC CR2032 (optional)

All Communication ports have built-in isolation protection

Splinter 2102

CPU: ARM Quad Core A-53 @ 1GHz
SDRAM: 512MB
Storage: 16GB / 32GB (optional)
LAN: 1 x 10/100M Ethernet RJ45
Wi-Fi: 2.4GHz 802.11 b/g/n wireless
Serial: 1 x Isolated RS-485 Ports
Power: Supports 7~36Vdc Isolated Power Supply
DOs: 4 x Isolated Relay Outputs



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Splinter 2602

CPU:	ARM Quad Core A-72 @ 1.5GHz
SDRAM:	1GB / 2GB (optional)
Storage:	8GB eMMC/ 16GB eMMC (optional)
LAN:	1 x Gigabit Ethernet RJ45, 1 x10/100M Ethernet RJ45
Wi-Fi:	2.4 GHz, 5.0 GHz 802.11 b/g/n/ac wireless (optional)
Serial:	4 x Isolated RS-485 Ports
USB:	2 x USB-A 2.0 Ports
HDMI:	1 x Standard HDMI 2.0 connector
Power:	Supports 7~36Vdc Isolated Power Supply
RTC:	Battery backed RTC CR1220

Splinter series controllers are truly inter-operable

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INDUSTRIAL AUTOMATION SOLUTIONS

WHAT WE OFFER

OUR SERVICES

01 **Software Solutions**

Cloud or local server based
Industrial Automation &
Energy Management Systems

02 **Hardware Solutions**

Communication Gateways
IoT Controllers
RTU, FRTU & DCU Controllers

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