| Feature | Description | Ignition | QCS Flexy | QCS MQTT GW |
|---|---|---|---|---|
| **Alarming Features** | | | | |
| Alarms | Real-time & Historical Alarms.  Log data to any database.  Remote notification sends alarms to your inbox/printer/smartphone. | ✓ | ✓ | ☐ |
| Email | Send email (with attachments) or text messages that can be accessed from mobile devices. Get real-time information on alarms, process values, and other events. | ✓ | ✓ | ☐ |
| SMS Notification | SMS Text Alarm messages | ✓ | ✓ | ☐ |
| **Graphics** | | | | |
| Animation | Paste images, rotate dynamically.  Fill bar graphs with color, or adjust the scale of objects.  Animate via command, hyperlink, text data link, color, resize, transparency, and position. | ✓ | ✓ | ✓ |
| Graphics & Design Tools | Graphic interface tools create screens to meet any application requirement.  Combine > 1,000 animated objects.  Store graphics in the library provides - consistent "look and feel". | ✓ | ✓ | ✓ |
| Symbols | Push Buttons, Pilot Lights, Tanks, Sliders, Meters, Motors, Pipes, Valves, and other common objects - Create your own! | ✓ | ✓ | ✓ |
| JavaScript Custom Widgets | Custom Widgets integrate 3rd party, reusable JavaScript, HTML5, and CSS interface properties and events to expand and enhance the graphical interface. | ✓ | ✓ | ✓ |
| Multi-touch Interface | Develop applications for touch screen devices.  Pinch zooming and panning.  Scroll through alarms using swiping gestures; Rotate graphics, dock screens, swipe gestures to change screens | ✓ | ✓ | ✓ |
| XML Screen Toolkit | Modify or create screens during the runtime, or import screens that you've created. | ✓ | ☐ | ☐ |
| **Drivers/ Protocols** | | | | |
| Drivers | Ethernet Drivers: Modbus/TCP, Ethernet/IP, ProfiNet, Serial Drivers: Modbus/RTU - Use Serial Ports on PLC for ASCII and Modbus/ RTU.  Convert tags to MQTT to communicate to IIoT. | ✓ | ✓ | ☐ |
| Modbus TCP/RTU | Support Modbus TCP and Modbus RTU protocols | ✓ | ✓ | ✓ |
| OPC | OPC UA (client/server), OPC DA (client/server), OPC XML (client), OPC.Net (client), and OPC HDA (server) OPC UA and OPC DA also offers native redundancy configuration. | ✓ | ✓ | ☐ |
| OPC-UA | Cross-Platform OPC-UA server | ✓ | ✓ | ☐ |
| .Net and ActiveX | Add functionality such as browsers, media players, charting, live streaming video from cameras | ✓ | ☐ | ☐ |
| Scripting | Scripting language supported - VBScript - can be used as an editor that includes break-points, and a variable watch list to improve productivity. | ✓ | ✓ | ☐ |
| UDP and TCP Drivers | Driver for Receiving and parsing UDP and TCP packets | ✓ | ✓ | ✓ |
| **Database Management** | | | | |
| Database | Any SQL database (Microsoft SQL, MySQL, Sybase, Oracle) or Microsoft Access/Excel and ERP/MES systems (including SAP) - Also supports NoSQL servers such as Cassandra | ✓ | ✓ | ✓ |
| SQL Bridge | An OPC to SQL data logger and transaction manager | ✓ | ✓ | ✓ |
| Tag Database | Object oriented database with Boolean, integer, real, strings, arrays, classes (structures), indirect tags.  Allows you to create, delete, or modify the tags' database settings during the runtime. | ✓ | ✓ | ✓ |
| Trends | Real-time & Historical trends, SPC functionality,  Log data in binary format, or to any SQL database. Color or fill trends with graphic elements. Date/Time based, (X/Y plot) trends, Vertical and Horizontal tr | ✓ | ✓ | ✓ |
| Historian | Trend History - features data decimation designed to load millions of values from SQL Relational DBs. Access to Statistical Process Control (SPC) values | ✓ | ✓ | ✓ |
| Tag Historian | Turns any database into powerful historian that can store and deliver data | ✓ | ✓ | ✓ |
| Store and Forward | Store-and-forward historical data so you never lose it. | ✓ | ☐ | ☐ |
| **Management** | | | | |
| Enterprise Administration | A remote gateway admin system, allowing to manage gateway tasks and automation from a single controller | ✓ | ✓ | ✓ |
| Intellectual Property Protection | Screens, documents, scripts, and worksheets can be individually password protected - Protect entire project. | ✓ | ✓ | ✓ |
| Scheduler | Schedule application behavior by tag changes, date/time, frequency, or any trigger.  Trigger reports at a particular time of day, or even trigger driver worksheets to read/write at a desired scan rate | ✓ | ✓ | ✓ |
| Multi-Language | Develop in one language and use translation tools to switch the runtime to any language - automatic font replacement | ✓ | ☐ | ☐ |
| EmbeddedView | Offers a small footprint, comprehensive SCADA, IIoT, and HMI software specifically designed for Microsoft Embedded platforms. | ✓ | ✓ | ✓ |
| Events | Ensure traceability.  Log events such as security system changes (user logon or off), screen open/close, recipe/report operations, system warnings, and any tag value changes, inc custom messages. | ✓ | ✓ | ✓ |
| FDA Traceability | Take advantage of built-in functionality to create 21 CFR part 11 compliant projects with traceability and e-signatures. | ✓ | ☐ | ☐ |
| FTP | Automatically upload or download files during runtime to/from remote storage locations using FTP protocol and flexible scripting functions.  Configure FTP via scripts. | ✓ | ✓ | ☐ |
| Recipes | Save time and maintain consistency by automating part parameters or production quantities with flexible recipe tools. Options including loading directly to PLC or edit before committing to PLC. | ✓ | Local PLC | Local PLC |
| **Reports** | | | | |
| PDF Export | Send alarms, reports, or any file to a production supervisor, QC manager, or maintenance staff using included PDF writer | ✓ | ✓ | ✓ |
| Reports | Create clear, concise reports in plain text, RTF, XML, PDF, HTML, and CSV or integrate with MS Excel | ✓ | ✓ | ✓ |
| IoTView | Is a platform agnostic core runtime for Linux, VxWorks, and other embedded platforms.  Make intelligent embedded systems - add your machines to the Internet of Things. | ✓ | ✓ | ✓ |
| Import Wizards | Convert whole applications from Allen Bradley FactoryTalk ME/SE, PanelMate, or PanelBuilder32. | ✓ | ☐ | ☐ |
| **IIoT** | | | | |
| Redundancy | For critical applications where data is vital - supports web server, database, and overall redundancy to protect your information | ✓ | ✓ | ✓ |
| Remote Support | Offer Support as a Service or quickly troubleshoot and modify applications with the built-in remote support tool, which adds Team Viewer-like support capabilities | ✓ | ✓ | ✓ |
| Scalable | Use the same development environment to design and deploy projects to a wide range of platforms, such as Linux, VxWorks, Windows Emb W7, W8, W10, Server 2012, and Server 2016 editions. | ✓ | ✓ | ✓ |
| Security | Support for group and user accounts, e-signatures, and traceability.  Integrate your project to the Active Directory (Users and Groups) | ✓ | ✓ | ✓ |
| Studio Mobile Access | Allows you to access your graphical interface from any device with a browser that supports HTML5, such as iPads, iPhones, Android devices, Windows devices, and others. | ✓ | ✓ | ✓ |
| Troubleshooting | Debug/Verify projects using local and remote tools, communications in real-time | ✓ | ✓ | ✓ |
| Business Intelligence | Transform raw data into meaningful information.  Design custom dashboards in minutes | ✓ | ✓ | ✓ |
| Totally Cross-Platform | Works on Windows, Linux, MacOS and more. | ✓ | ✓ | ✓ |