

# IQ Application Environment

Linux-based Platform to Deploy and Run Industrial Applications



## Enabling the Intelligent Edge

FreeWave's **IQ** Application Environment is an open source platform to program, deploy, and run applications in any Linux-compatible language.

It enables industrial organizations to easily bring intelligence to the edge, where their remote operations take place—without the expense and delay of moving that data to a central location for processing.

**IQ** is delivered through FreeWave's Zum family of products, which are built upon the low-power, rugged design foundation that has kept our industrial radios running without fail in the toughest outdoor environments for decades. Together, **IQ** and our Zum solutions ensure the uptime and performance of applications that put sensor queries, analytics, and intelligence at the extreme network edge.

### IQ-Infused Products Include:

#### ZumiQ™ Edge Computer

- ZIQ-P   ◦ ZIQ-PE
- ZIQ-P2   ◦ ZIQ-PE2

#### ZumLink™ IQ 900 Series

- Z9-P   ◦ Z9-PE
- Z9-PC   ◦ Z9-PC-SR001
- Z9-P2   ◦ Z9-PE2

### Services and Support

FreeWave offers basic technical support services covering problem resolution, customer success and adoption, and designated support management. Basic support entitles customers to support for break/fix issues by phone, web, or email. It includes access to the GitHub knowledge base, as well as software updates and upgrades.

#### Computing Resources

<b>CPU</b>	ARM Cortex-A8 1 GHz
<b>RAM</b>	-P, -PE, -PC Models: 512 MB -P2 & -PE2 Models: 1 GB
<b>Storage</b>	1 GB
<b>OS</b>	Debian-based Linux
<b>Compatible Languages</b>	Python, Javascript (Node.js), Node-RED, C++, and GO as well as any Linux-compatible language

## **IQ Developers Edition**

All IQ-infused products come standard with the IQ Developers Edition. The IQ Developers Edition includes a suite of Software Development tools to design, create, and test applications, including:

- Access to FreeWave GitHub repository
- Training materials on how to create, install, or run an application
- Application examples
- Scripts to get started with Javascript (Node.js), Node-RED, and Python
- Access to [www.openplcproject.com](http://www.openplcproject.com), a consortium of industrial app developers that share ideas and best practices on process control and SCADA

## **Other IQ Editions with Software Pre-Installed**

FreeWave also offers IQ-infused solutions with strategic partner software pre-installed in our factory, giving you even greater out-of-the-box functionality in a hardware product made for industrial demands.

See Edition-specific IQ data sheets for further details.

## **Bring Intelligence to Your Edge Today**

The IQ Application Environment provides a robust platform that enables both skilled and novice IIoT developers to quickly create solutions to rapidly analyze and act on IIoT data or to deploy networking tools such as: edge-based data acquisition with report-by-exception publishing, predictive analytics, protocol conversion, network security technology, networking diagnostic tools, and local execution via automated control of remote sensors and devices.

You will immediately gain expanded capabilities for high-fidelity data capture, analysis, control, and automation with applications that are readily operationalized as your edge computing needs evolve.

**Contact the FreeWave sales team to learn more.**

