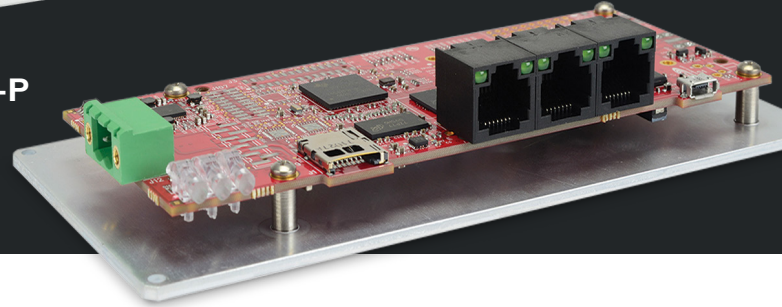


**ZumiIQ™**

Edge Computer



ZIQ-P



## Deploy IIoT Applications at the Industrial Edge

Run applications reliably at the edge and on any network architecture with FreeWave's low-power, C1D2-certified ZumiIQ edge computer loaded with the **IQ** Application Environment.

ZumiIQ's ruggedized hardware provides a secure home for applications that place analytics and intelligence where remote operational assets reside—maximizing your business capacity and capability by eliminating the expense and delay of moving that data to a central location for processing.

The **IQ** Application Environment onboard ZumiIQ provides an open source platform to deploy and run applications in any Linux-compatible language. These applications provide edge computing to improve data visibility without overburdening the network and to enable networking tools such as security and diagnostics. ZumiIQ accomplishes this by rapidly modernizing edge equipment and devices.

Loaded with standard serial and Ethernet interfaces, ZumiIQ can be flexibly integrated into any wired or wireless network. It has the ability to execute multiple applications simultaneously and with low power consumption, making it ideal for remote edge environments where infrastructure is limited.

### Key Features

**IQ Application Environment Onboard:**

Linux-based platform to deploy and run industrial applications (e.g., those created with Python, Node-RED, C++, Go); flexibility to develop on a maker platform and deploy on ZumiIQ

**Low Power Consumption:**

2 W (max)

**Solar-Compatible Operating Voltage:**

+6 to +30 VDC (+/- 10%); can be powered by batteries, fuel cell, solar, wind turbines, or DC

**Wide Operating Temperature Range:**

From -40°C to +75°C

**Safe for Hazardous Locations:**

Class I, Division 2 certified

**Flexible Interface Options:**

1 Ethernet (10/100/1000 Mbps) and 2 Serial (RS232 / RS422 / RS485)

ZumiIQ comes standard with the **IQ** Developer Edition with packages pre-loaded for Python, Node-RED, and Node.js. Other Editions are available based on strategic partner software. See Edition-specific **IQ** data sheets for further details.

Computer	
CPU	ARM Cortex-A8 1GHz
Operating System	Linux: Debian 9, Kernel v3.14.1
RAM	512 MB
User Storage	1 GB Flash

Power Requirements	
Operating Voltage	+6 to +30 VDC (+/- 10%)
Power Consumption	2 W (max)

Interfaces	
Data Connectors	1 Ethernet: RJ45, 10 / 100 / 1000 Mbps 2 Serial: RJ45, RS232 / RS422 / RS485
USB Connector	1 Micro USB
Power Connector	ZIQ-P: Phoenix Contact (#1776692) ZIQ-PE: Switchcraft (#17282-2PG-300)

General Information	
Operating Temperature	-40°C to +75°C (-40°F to +167°F)
Humidity	0 to 95%, non-condensing
Dimensions	<b>ZIQ-P:</b> 69.67 L x 82.04 W x 31.75 H (mm) 6.68 L x 3.23 W x 1.25 H (in) <b>ZIQ-PE:</b> 191.04 L x 109.47 W x 41.91 H (mm) 7.5 L x 4.3 W x 1.7 H (in)
Weight	<b>ZIQ-P:</b> 172 g (0.38 lbs) <b>ZIQ-PE:</b> 750 g (1.7 lbs)

Certification	
Hazardous Location	Class I, Division 2 Groups A-D

Information to Order	
Model Number	Description
ZIQ-P	Board level, App Server
ZIQ-PE	Rugged enclosed, App Server

### Applications Enabled

ZumIQ is ready to support your edge applications to collect and exchange high-fidelity data, monitor and automate the actions of remote assets, and drive better, faster decision-making for significant operational gains. **These could include:**

- Real-time remote monitoring
- Network diagnostic tools
- Predictive analytics
- Network security
- Remote site automation
- Robotics and autonomy
- Smart process optimization
- ...and much more