# XetaEdge Dual Band

## *Edge Computer & Dual Band Radio*

The **XetaEdge Dual Band** radio is an extremely capable, flexible, and low cost industrial Edge Computing application device with two integrated software defined radios (SDRs) each either operating in the same frequency band or in totally different frequency bands.

Any of XetaWave's RF modules - ranging from 100 MHz to 2.4 GHz can be combined together creating a dual band radio. Each radio complies with its original specifications and supports all of its existing features.

The **XetaEdge Dual Band** radio is 100% open source allowing quick and simple hosting of many existing or new applications including the **AUTOSOL eACM** and the **Inductive Automation Ignition Edge** for interacting with existing devices like flow meters, ROCs, and PLCs while reducing bandwidth needs with the use of the **MQTT** protocol.

The **XetaEdge Dual Band** can be configured as a back-to-back repeater reducing cost, weight, and power consumption while also eliminating cables. It can also be used to bridge between two different frequency bands or bridge between two networks.

## Key Features

**Performance** All features and specifications of the single version radio are supported.

**Wide Selection** Frequency selections in the 100, 200, 400, 700, 900, 1400, and 2400 MHz bands.

**Operating System** Powerful, open Debian Linux Operating System

**Secure** Over-the-air data encryption using 128-bit and 256-bit AES.

**Adjustable RF Output** RF output power for each radio module is user controlled.

**Network Types** Point to Point, Point to Multipoint, CSMA Peer to Peer, Enhanced Multipoint, XetaMESH.

**Repeater** Units can be configured as back-to-back repeaters eliminating extra boxes and cabling between them.

**Apps** AUTOSOL eACM, Node-RED, Inductive Automation Ignition Edge, AVEVA IoT View, and more are supported.

**Open Source** Host existing Linux applications or new ones developed in Java, Python, Ruby, Perl, and many more.

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# XetaEdge Dual Band Options

XetaWave has the ability to put any combination of RF modules together to create dual band radios with and without programmable input/output. The list below identifies existing XetaEdge models. Please contact us for the availability of other models and combinations.

| Model | Band 1 | Band 2 |
|---|---|---|
| XETAEC4X4-22MMDFB | 406-430/450-470 MHz | 406-430/450-470 MHz |
| XETAEC4X4-22MMDFB-IO | 406-430/450-470 MHz | 406-430/450-470 MHz |
| XETAEC4BX4B-22MMDFB | 450-470 MHz | 450-470 MHz |
| XETAEC4BX4B-22MMDFB-IO | 450-470 MHz | 450-470 MHz |
| XETAEC9X9-22DMDFC | 902-928/928-960 MHz | 902-928/928-960 MHz |
| XETAEC9X9-22DMDFC-IO | 902-928/928-960 MHz | 902-928/928-960 MHz |
| XETAEC9X9-22IMDFC | 902-928 MHz | 902-928 MHz |
| XETAEC9X9-22IMDFC-IO | 902-928 MHz | 902-928 MHz |
| XETAEC9X4-22DMDFC | 902-928/928-960 MHz | 406-430/450-470 MHz |
| XETAEC9X4B-22DMDFC | 902-928/928-960 MHz | 450-470 MHz |

## Environmental / Physical

| | |
|---|---|
| Operating Temperature | -40°C to +60°C (MAS) / +75°C (ISM) |
| Humidity | 95% @ +40°C non-condensing |
| Safety | UL Class 1 Div 2 |
| Dimensions | 6.62" x 3.45" x 1.83" (L x W x H) |
| Weight | 700 grams |

XETAWAVE
CUSTOM RF SOLUTIONS

*Specifications subject to change without notice.* 5.2024