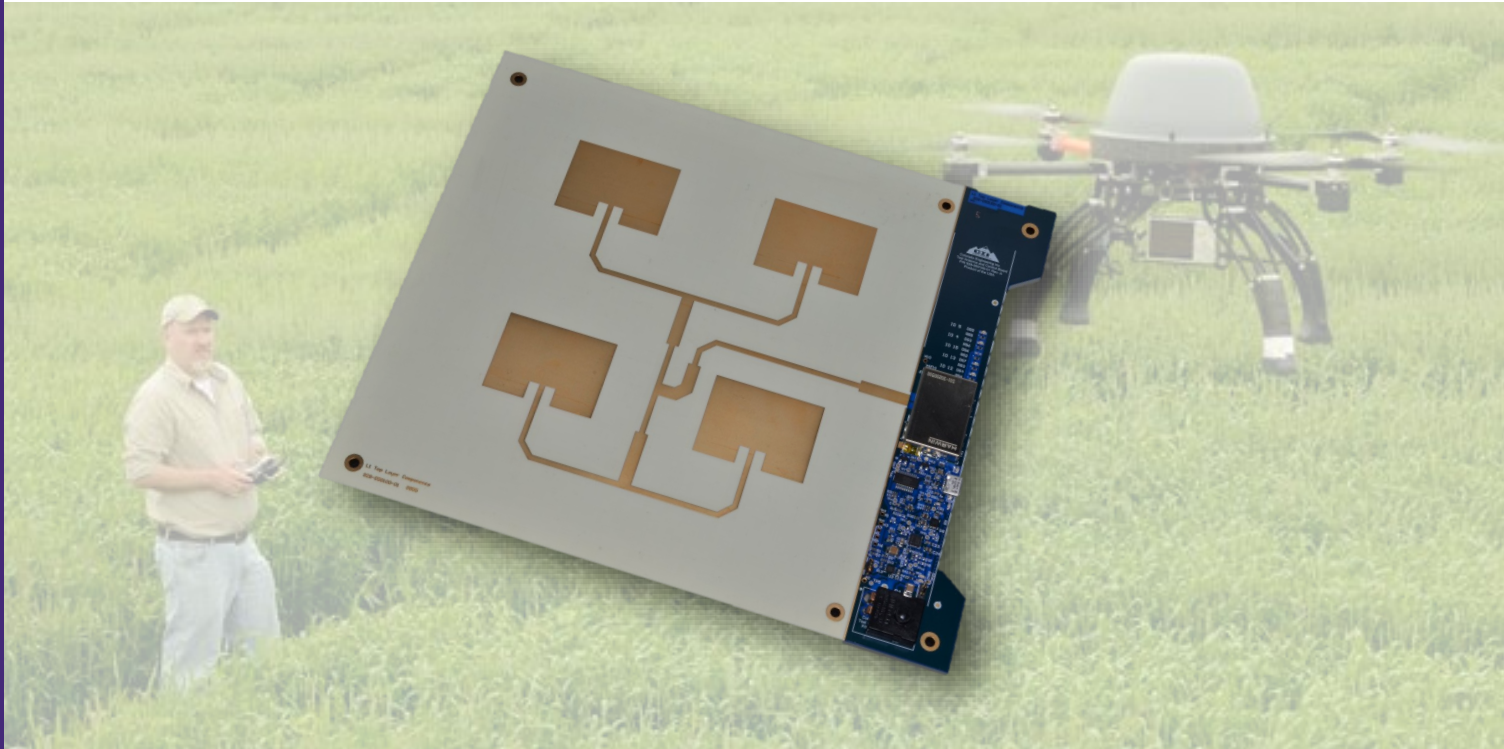


# AmpiFly

## Range Extender

### Wi-Fi Range Extender & Standoff Repeater

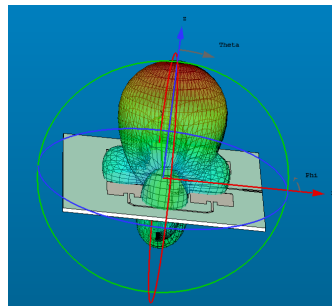


#### DESCRIPTION

The AmpiFly Wi-Fi range extender is a standoff repeater that extends the range of a Wi-Fi signal up to 800m. It enhances many other applications as well, including ATVs, Beacons, Bluetooth, AMSAT, wireless systems, dish feed, and satellites. LEDs equipped on the board display the power status. Each Range Extender can broadcast as a hotspot, allowing up to five users and enabling communication with a large variety of devices. The hotspot operates on both Android and iOS. The Extender operates on both Linux and Windows platforms. The micro-controller console is provided as a USB serial interface. A software program must be used to access the consoles, i.e. Arduino IDE 1.8.2.

#### 3D Radiation Pattern

The 3D far-field radiation pattern on the right shows the antenna beam giving over 13 dBi of directed gain due to the number of antenna patches utilized in this design.



#### SPECIFICATIONS

##### Key Features

- IEEE 802.11g
- Utilizes Directional Antenna
- Linux and Windows Platforms
- Hotspot runs on Android and iOS
- Maximum Range of 800 m
- USB

##### Power

- 3.6V—3.8V
- MIKROE-1120 Lithium Ion Battery
- Power On Indicator LED
- Software Controlled LED

#### APPLICATIONS

- ATVs
- Beacons
- WiFi
- Bluetooth
- AMSAT
- Satellites
- Repeaters
- Wireless Systems
- Dish Feed

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