



# Smart Off-Grid Communications



Clear Blue Smart Off-Grid is advanced technology that provides real-time, 24x7, remote control, monitoring and management of all off-grid systems using the Clear Blue controller. Data about each system is automatically collected and sent to the central Illumience cloud. All Illumience services are accessible from any Internet-connected device utilizing a browser.

At Clear Blue , we have designed our technology with a focus on simplicity and ease of implementation. Our flexible communications options eliminate the complexity of set up and use a very low cost cellular service. Unlike products from other suppliers, Clear Blue’s controller comes with the communications built right in!

There are three communications options to choose from depending on the customer’s needs. Clear Blue can help determine the best option for your project.

- 1. Cellular:** Clear Blue provides an integrated cellular service, with each system directly communicating with the Illumience cloud.
- 2. Zigbee/mesh with Cellular:** With this option, each system sends its data to a gateway device using built-in Zigbee communications. The gateway is installed within one of the poles, and it communicates to the Illumience cloud using the cellular network.
- 3. Zigbee/mesh with Ethernet:** With this option, each system sends its data to a gateway device using built-in Zigbee communications. The gateway is installed at the customer facility and is connected via Ethernet to a corporate network which then sends the data to the Illumience cloud over the Internet.

In a zigbee network, we recommend the maximum distance between poles or to the gateway is 1000 ft (300m).

