

1.0 GENERAL

1.1 The Code Blue IP Wireless Communication System shall be a 802.11g wireless communications network. It shall allow one Root Bridge communicate with up to 16 remote units in the field in a point-to-multi-point configuration. The system shall be used with emergency speakerphones with a push-to-activate operation, and shall be capable of either stand-alone operation or direct integration with an analog or IP PBX or public telephone switch. In order to obtain the optimum system configuration, a qualified technician shall conduct a site survey.

1.2 The system shall have the following features:

INTERFACES

Ethernet
Console
F-Type Connectors
External Antenna
Grounding Lug

POWER REQUIREMENTS

<i>Input Voltage</i>	12 to 40v DC or 120v AC
<i>Power Consumption</i>	11 watts maximum

802.11g SPECIFICATIONS

2.4 GHz Frequency

OPERATING TEMPERATURE

-30° to +55° C

2.0 SYSTEM CONFIGURATION

2.1 The system shall consist of two main components:

- 2.1.1 Root Bridge
- 2.1.2 Non-Root Bridge

2.2 The IP Wireless remote unit shall include the following equipment:

- 2.2.1 Non-Root Bridge
- 2.2.2 Antenna and cable (type may vary per location)

2.3 The IP Wireless base unit shall include the following equipment:

- 2.3.1 Root Bridge
- 2.3.2 Antenna (type may vary per location)

2.4 The Code Blue IP Wireless system may utilize multiple Root Bridge configurations if a direct line-of-sight operation is not possible.

2.5 The configuration and equipment used shall be dependent upon the result of an onsite survey that shall be conducted by a qualified technician.

3.0 SPECIFICATIONS

3.1 System Specifications

3.1.1 IP Wireless 802.11g communications with backward compatibility for 802.11b networks will be utilized.

3.1.2 Specifications Chart

DATA RATE/RANGE (14-dBi sector at root and 21-dBi at non-root)

2.0 miles (3.3 km) at 54 Mbps

10 miles (16 km) at 11 Mbps

POWER REQUIREMENTS & CONSUMPTION

AC Power: 100 to 240v AC, ±10% up to 9 W

DC Power: +12 to +40v DC, ±10% up to 11 W

TRANSIT POWER

802.11b	100 mW (20 dBm) 50 mW (17 dBm) 30 mW (15 dBm) 20 mW (13 dBm) 10 mW (10 dBm) 5 mW (7 dBm) 1 mW (0 dBm)
802.11g	30 mW (15 dBm) 20 mW (13 dBm) 10 mW (10 dBm) 5 mW (7 dBm) 1 mW (0 dBm)

ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

<i>Operational Temperature:</i>	<i>-22° to +131°F (-30° to +55°C)</i>
<i>Storage Temperature:</i>	<i>-40° to +185°F (-40° to +85°C)</i>
<i>Operational Altitude:</i>	<i>10,000 ft (3048 m)</i>
<i>Storage Altitude:</i>	<i>16,000 ft (4877 m)</i>
<i>Humidity:</i>	<i>0 to 100% at 1000F (380C) (condensing)</i>
<i>Enclosure:</i>	<i>NEMA 4; IP56; UL2083; environmentally sealed</i>

4.0 WARRANTY

4.1 The unit shall be warranted for a period of two (2) years. Reference the manufacturer's warranty for further details.

5.0 MANUFACTURER

- 5.1 The Manufacturer shall be Code Blue Corporation of Holland, Michigan. There are no equivalents.
- 5.2 Code Blue Corporation manufactures its products according to the most recent revision of product specifications, and shall not be held responsible for obsolete or outdated specifications. For the latest revision, please refer to www.codeblue.com.