

## **Technical Specifications (Project: Sakura CD, Rev 0.10)**

### **1. General Information:**

- Intended Environment : **Indoor Use**
- Operating Temperature Range : **+15 to +35° C**
- Physical Dimensions of Unit :
  - Controller : Approx. (160x110x70)mm
  - Base: Approx. (75x55x30)mm
- Number and type of I/O cables used : **NIL**

### **2. Type of Equipment:**

- Controller : **Portable**
- Base : **Fixed**
- The controller & Base each has a **900MHz Full Duplex Transceiver**.

### **3. Operating Frequency Information:**

- Transmitter Operating Frequency (s) :
  - **902.20~904.90MHz (Base)**
  - **924.80~927.50MHz (Controller)**
- Receive Frequency(s) :
  - **902.20~904.90MHz (Controller)**
  - **924.80~927.50MHz (Base)**
- Declared Frequency Range (or Operating Range): **8 meter**

- Method of Frequency generation: **Synthesizer**
- Number of Channels (Frequencies): **10 channels**
- Channel (Frequency) separation: **300KHz**
- Bandwidth: **150KHz measured at -6dBc**

#### **4. Output Power Information:**

- Rated Output Power: **-2dBm**, measured at the **Antenna Terminal (50W)**
- Output power: **Fixed**

#### **5. Modulation Information:**

- Type of modulation: **FSK**

#### **6. Antenna Information:**

- Number of Antennas with the unit: **Two**
- Gain of each antenna (in dBi): **1dBi**
- Controller: **Integral (Non-removable) Loop antenna**
- Base: **Integral (Non-removable) Loop antenna**
- Loop size(s): **6mm x 38mm**

#### **7. Power Supply Information:**

- **Controller:**
  - Type of Power supply: **Battery**
  - Type of Battery: **3 x AA NiCd or Alkaline**

- Nominal Operating Voltage: **3.8V d.c**
- Operating Voltage range (Cutoff Voltage for Battery Powered): **3.4V d.c**
- Current Requirement: **100mA d.c.**
- **Base :**
  - Power derived from PS2 Console (8VDC)

#### **8. Clock Information:**

- Clock (oscillator) frequencies used in system:
  - **10.24MHz**
  - **20MHz**
  - **4MHz**