

### **3. System Function**

USHR-0819SS features and functions are described below.

#### **3.1 Operation and Monitoring Functions**

- 3.1.1 This unit uses 3 LED display to distinguish its operating modes. The green LED indicates that power is ON. The red LED for the 800 or the 1900 band is displayed only when that module is shutdown. When the unit is initializing, all three LED lights blink 1 to 3 times.
- 3.1.2 To maintain constant power level, automatic level control (ALC) function is used. When ALC detects excessive input power, auto shutdown process begins separately for each Cellular and PCS module of the USHR-0819SS.

#### **3.2 Characteristics and Features**

- 3.2.1 The unit is installed between the base station and the mobile phone and allows better mobile phone coverage by amplifying weak base station signals.
- 3.2.2 This unit receives the downlink signal from the base station and processes the signal using the ALC to pass a consistent signal (even if there is a variation from the downlink signal) to the mobile phone.
- 3.2.3 This unit receives the uplink signal from the mobile phone and processes the signal using the ALC to pass a consistent signal (even if there is a variation from the uplink signal) to the base station.
- 3.2.4 Up on reboot from power outage or manual ON/OFF, the unit will initialize to the last operating state before the power was off.
- 3.2.5 As the mobile phone is roaming out of the unit's coverage area, the call hand-off should be smooth and there should be no interruption of the call in progress.

## 4. Installation

### 4.1 Introduction

The optimal installation method is explained below.

### 4.2 System Components

This unit consists of the power adapter, the signal repeater, and wall mount bolts. Please check to make sure that you all parts listed here.

### 4.3 Installation Location

In areas where the base station signal is weak.

