

1. Introduction

1.1. GENERAL DESCRIPTION

The goal of the Repeater system is to improve coverage for T-MOBILE AWS (1710-1755MHz, 2110-2155 MHz) in medium size indoor areas of up to 50,000 sq. ft.



Figure 1-1: BDA-AWS21-26-4UT-AB-JXX Repeater

The system implements BDA technology to enhance coverage in urban areas. Repeaters are used to fill out uncovered areas in cellular mobile systems, such as base station fringe areas, road tunnels, business and industrial buildings, etc. A Repeater receives signals from a base station, amplifies the signals and retransmits them to service area. It also receives, amplifies and retransmits signals in the opposite direction. Both directions are served simultaneously.

In order to receive and transmit signals in both directions, the Repeater is connected to a donor antenna directed towards the base station and to a service antenna directed towards the area to be covered.

Control of the Repeaters is performed using a desktop or laptop computer equipped with standard browser (no special software) which can communicate with the Repeaters, either locally or remotely via modem (optional).