

**Description of Operation**

The BDA is a Bi-directional amplifier. It is designed to exchange radio communications in buildings, basements, tunnels, and other RF shielded environments. It improves the sensitivity of base stations in indoor locations where there is a significant amount of cable loss in RF distribution systems.

It contains two amplifiers providing amplification of RF signals in Uplink and Downlink frequency bands. They are connected to the external cables via frequency selective duplexers in order to attenuate all signals that are not in the designated bands.

## System Diagram

