

Circuit description:

1. **Functional Description:** As shown, The system is broke up cellular part and pcs part, The cellular part and pcs part are made up uplink and downlink. The uplink signal is received by the indoor antenna, and transmitted by the outdoor antenna after amplified by amplifiers. The downlink is same as the uplink.
2. **The warning of over power:** When the output power is over of the declared power the red led display of the link will be lighted up.
3. **Power instructions:** When the power supply connected to the amplifier the green led display of power supply will be lighted up.
4. **Power convert circuit:** The amplifier will be using the 19V power supply. The dc-dc conversion (SP7656) provided power to the gain block after converted 19V to 5V
5. **ALC:** When the output power rise up to the declared power, the amplifier will be adjustment gain to keep the output power at the declared power.