

Features

- Optical fiber transmission up to 20km; suitable to cover town, highway and residential area.
- Highly scalable with maximum configuration of 1 main unit, 4 optical interface modules and up to 8 remote units.
- Channel-selective downlink remote unit.
- Output power of 10W or 20W.
- Laser technology with high linearity.
- Remote Unit is light weight and easily installed with wall mounting chassis.
- Built-in alarm interface for remote system monitoring.
- Optional external backup battery permits operation in unstable power supplies.



Product Description

The RA-1080 is a CDMA800 channel-selective optical RF repeater. It is mainly used for outdoor coverage enhancement and point-to-point indoor distribution system. It uses single-mode fiber and is suited for applications where large signal coverage is required, such as high-rise office buildings, highway, hotels, shopping malls, underground tunnels, airports and convention centers.

The system comprises of:

- A Central Distribution Unit (CDU) that connects the duplex RF ports of the base station to the Fiber Interface Module. The CDU comes installed in a rack-mountable 19" chassis.
- The Fiber Interface Module (FIM) converts the downlink RF signals to optical signals, and vice-versa for the uplink signals. Up to 4 FIMs can be installed in a chassis with a CDU, with each FIM supporting 2 single mode fibers.
- The Remote Unit (RU) converts the optical signals from the FIM to RF outputs. Each RU has one antenna ports for connection to passive antennas.
- The Alarm Module (ALM) can be installed to report alarms to the BTS.
- The Power Supply Unit (PSU) converts the ac voltage to power up the CDU, FIM and ALM.

Available Model

Model	Description
RA-1080-L	Main Unit , Direct Coupling
RA-1080-R	Remote Unit

System Block Diagram

