

## Features

- High power repeater system
- All weather outdoor & indoor usage applications of large area coverage
- Full software control by local or remote terminal
- Advanced features: Full digital RF measurements, alarms system
- Alarms by SMS application
- High linear amplifiers for TX channel
- Low noise amplifiers for Rx channel
- High gain up to 90dB
- Designed to transmit CDMA Signal and meet IS-95,CDMA2000 standards
- High reliability components



## Product Description

This advanced repeater system is designed to obtain coverage in very large areas for indoor and outdoor applications. Typical applications are: very large buildings and shopping centers, rural areas up to 20km, tunnels, Highway roads etc. This unit has very advanced features build in such as oscillation detection, full RF measurements of both UL & DL channels, traffic estimator, advanced alarm system and more. A build in - computer processor and cellular modem allows remote setting, tuning and alarms messaging of the unit from a remote or local console terminal.

### Optional Features:

|   |       |
|---|-------|
| M | Modem |
|---|-------|

## Specifications

| Parameter                              | Specifications  |
|--|---|
| Frequency Range <sup>1</sup>           | DL : 1930-1990<br>UL : 1850-1910  |
| Output Power, Average CDMA 1FA         | Down<br>Pout=40dBm<br>ACPR -50dBc @750Khz offset<br>ACPR -65dBc @1.98Mhz offset<br>Pout=30dBm<br>Up<br>ACPR -45dBc @750Khz offset<br>ACPR -65dBc @1.98Mhz offset  |
| System Max Gain                        | 90dB  |
| Pass Band Ripple                       | 3dB pp  |
| Channel filter center frequency tuning | Using software ( remote or local ) in 100Khz steps  |
| Noise Figure (UL Channel)              | 4dB   |
| Tuning Gain Range                      | 30dB in 1dB steps   |
| Propagation Delay, max                 | 6usec   |
| VSWR                                   | 2:1 MAX   |
| Operating Conditions <sup>2</sup>      | -20C to +50C , Outdoor  |
| Manual Indicators \ Controls           | 1. Green Led: Power<br>2. Red Led: Alarm<br>3. Manual gain adjustment screws<br>4. AGC UL, AGC DL on/off switch.<br>Set or Read repeater parameters, Alarms and status using GUI from local PC\Laptop\PDA or remotely Using cellular MODEM. |
| Repeater Control                       | Cellular data modem ,<br>Cellular SMS modem<br>RS232 cable<br>or Bluetooth modem  |
| Repeater Control interface Options     |   |
| Dimension                              | 600mm X 380mm X 290mm ,<br>Waterproof case IP65   |
| Power Requirements                     | 220VAC  |
| RF Connector                           | N-Female<br>Mobile N female   |