

## 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 :870-880Mhz ,UL : 825-835Mhz
Output Power, Average CDMA 1FA	Down
	Up
System Max Gain	Pout=40dBm ACPR -50dBc @750Khz offset ACPR -65dBc @1.98Mhz offset ( RBW=30Khz)
Channel filter center frequency tuning	Pout=30dBm ACPR -45dBc @750Khz offset ACPR -65dBc @1.98Mhz offset ( RBW=30Khz)
Channel Filter rejection	60-90dB in 1 dB step
Pass Band Ripple	Using software ( remote or local ) in 100Khz steps
Noise Figure	-40dBc @1Mhz offset
Propagation Delay, max μSEC. DL&UL	3 dB p-p
Out of band Spurious	< 4dB
VSWR	5
Operating Conditions <sup>2</sup>	≤ -36 dBm
Dimension	2:1 MAX
Manual Indicators \ Controls	-20C to +45C ambient
Repeater Control	600mm X 380mm X 290mm , Waterproof case IP65
Repeater Control interface Options	1. Green Led: Power 2. Red Led: Alarm 3. Manual gain adjustment screws 4. AGC UL, AGC DL on/off switch.
Power Requirements	Set or Read repeater parameters, Alarms and status using GUI from local PC\Laptop\PDA or remotely Using cellular MODEM.
RF Connector	Cellular data modem , Cellular SMS modem RS232 cable or Bluetooth modem
	220\110VAC
	Base - N female Mobile – N female



**BDA-CDMA80-40-XX-AB-XXX**

CDMA 800 Hi-Power Repeater, channel selective 1.25 Mhz

---