

## Features

- High linearity & low noise amplifiers for maximal coverage
- Compact size
- Simple installation
- Automatic Gain Control (AGC), with two options: 1. fix DL output power. 2. fix gain with limited DL output power.
- Automatic gain balance for UL & DL channels
- Designed to transmit CDMA signal and meet IS-95, CDMA2000 standards\*
- Telco grade reliability



## Product Description

Cellvine's highly compact indoor repeater has been designed to enhance and extend cellular coverage into small and medium size buildings, restaurants, underground areas, office buildings and other similar indoor environments. The unit is very simple to install and can be set to automatically obtain maximal coverage. Installing the unit requires two antennas: one on the outside of the building to receive incoming cellular signals from nearby base stations, and the other antennas inside the indoor coverage area. The unit is connected between the Outdoor & Indoor antennas to amplify both the base station and the mobile cellular signals.

When using a CDMA modem the repeater can be controlled by a remote PC terminal using Cellvine's GUI and management system. In this mode alarms can be managed from remote.

- The Repeater configuration can be Band Selective or Channel Selective at different rejection levels according to the customer definition.

\*Meets IS 95 standards only when using IF SAW filter.

### Optional Features:

M	Modem
B	IF SAW filter
J	Adjustable IF filter
C	Ceramic filter

## Specifications

Parameter	Specifications
Frequency Range <sup>1</sup>	DL :870-880Mhz ,UL : 825-835Mhz
Output Power, Average CDMA 1FA	Down Pout=30dBm ACPR -45dBc @750Khz offset ACPR -65dBc @1.98Mhz offset ( RBW=30Khz)
	Up Pout=20dBm ACPR -45dBc @750Khz offset ACPR -65dBc @1.98Mhz offset ( RBW=30Khz)
System Max Gain	90dB
Pass Band Ripple	4dB p-p
Noise Figure	UL: < 4 dB DL : < 5dB
AGC & Manual Gain Ranges	30dB in 1dB step
VSWR	2:1 MAX
Operating Conditions <sup>2</sup>	-20C to +50C
Manual Indicators \ Controls	1. Green Led: Power 2. Red Led: Alarm 3. Manual gain adjustment screws 4. AGC UL, AGC DL on/off switch. 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 , Cellular SMS modem
Repeater Control interface Options	RS232 cable or Bluetooth modem
Dimension	400mmX500mmX200mm, waterproof case IP65
Power Requirements	220VAC/110V AC
RF Connector	Base - N female Mobile - N female