

1.1 Introduction

This manual provides information pertaining to the installation and operation of JAS Teletech's HR1900P Home Repeater. This Unit is for CDMS, GSM, and TDMA modulations in the PCS frequencies as shown in Table 1-1.

<Table 1-1: HR1900P>

| Model Number | Down Link* Frequencies | Up Link** Frequencies | Modulation |
|--------------|---------------------------|--------------------------|-----------------|
| HR-1900P | 1930~1960MHz | 1850~1910MHz | CDMA, GSM, TDMA |

* Down Link: signal from base station to mobile

** Up Link: signal from mobile to base station

1.2 Description

This product is designed to cover blank spots of small offices, hotel rooms, small parking lots, garages or small buildings. It helps to improve PCS communications signal and coverage by extending the coverage of a base station.

Outdoor antenna receives signal from a PCS base station, then HR1900P repeater amplifies the signal. After amplification, the signal is passed through to the indoor antennas. Conversely, signals from handsets are amplified and retransmitted to the base station.

HOME Repeater [JAS-HR1900P] Specification

| No. | Parameters | Specifications | | Remarks |
|-----|--------------------------------|----------------------------|----------------|-------------------|
| | | Downlink | Uplink | |
| 1 | Frequency Range | 1930~1990MHz | 1850~1910MHz | 60MHz B.W |
| 2 | Output Power | +7dBm/1FA [Max.] | | |
| 3 | Gain | 50dB ±2dB/Fc | | |
| 4 | Gain Flatness | 7dB | | |
| 5 | Spurious Emission | Fc +885KHz | ≥ -45dBc/30KHz | |
| | | Fc -885KHz | ≥ -45dBc/30KHz | |
| | | Fc +1.98MHz | ≥ -50dBc/30KHz | |
| | | Fc -1.98MHz | ≥ -50dBc/30KHz | |
| 6 | Out OF Band Spurious | Less than -13dBm/1MHz | -13dBm | |
| 7 | P1dB | ≥ +14dBm | | |
| 8 | Output IP3 | ≥ +24dBm | | |
| 9 | Down/Up Link shutdown Function | ≥ +9dBm | | |
| 10 | Noise Figure | 7dB | | @ Full Band |
| 11 | V.S.W.R | 1 : 2.0 | | Up/Down Link Port |
| 12 | Impedance | 50 | | |
| 13 | Operating Temperature | 0 ~ +50 | | |
| 14 | Dimension (W x H x D) | 120mm x 97mm x 43mm [Max.] | | Without Connector |
| 15 | Weight | 600 g | | |
| 16 | RF Connector | SMA - Type (Female) | | Up/Down Link Port |