

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 \pm 2dB/Fc		
4	Gain Flatness		7dB		
5	Spurious Emission	Fc +885KHz	\geq -45dBc/30KHz		
		Fc -885KHz	\geq -45dBc/30KHz		
		Fc +1.98MHz	\geq -50dBc/30KHz		
		Fc -1.98MHz	\geq -50dBc/30KHz		
6	Out OF Band Spurious	Less than -13dBm/1MHz	-13dBm		
7	P1dB		\geq +14dBm		
8	Output IP3		\geq +24dBm		
9	Down/Up Link shutdown Function		\geq +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