

3. System standards

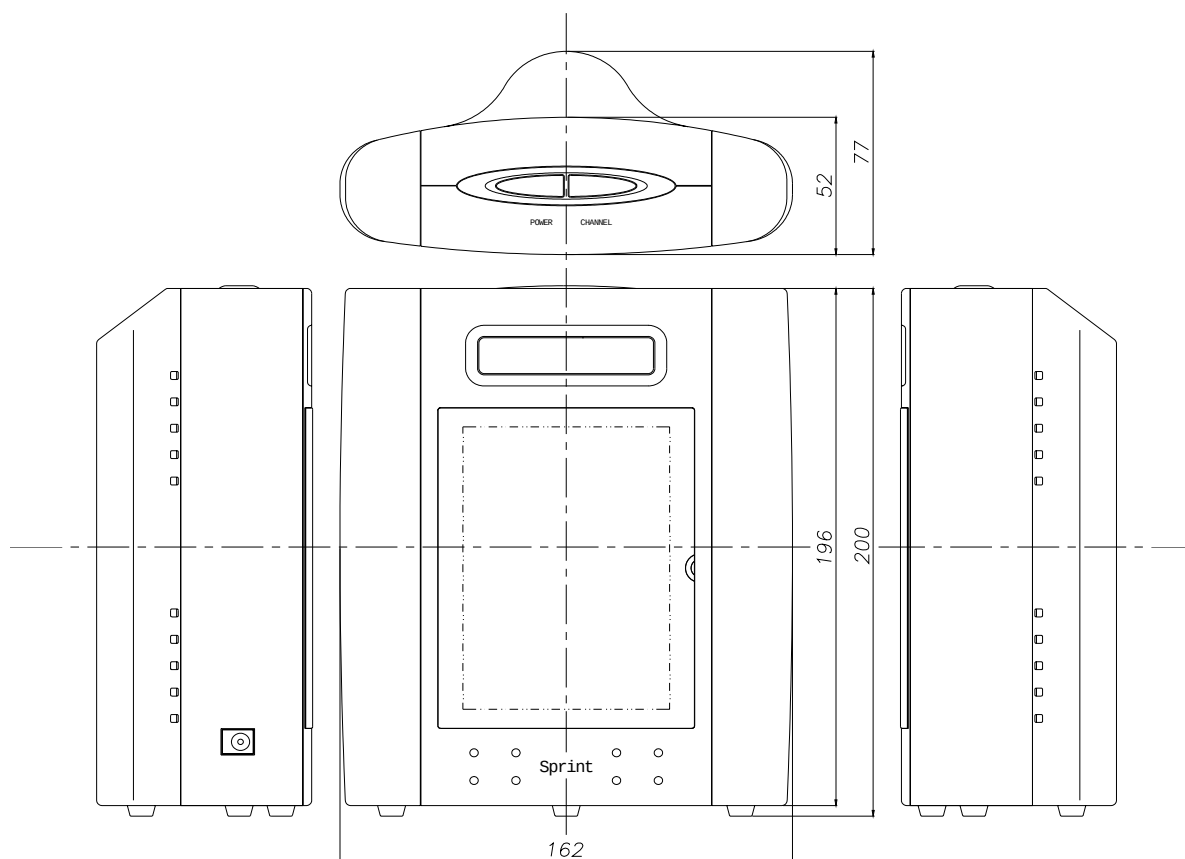
3.1 The Electronic features

Items	Specifications
Operating Frequency	1930MHz ~ 1990MHz Down link 1850MHz ~ 1910MHz Up link
Output power	8dBm Down link 8dBm Up link
RF Gain	60dB Up link 60dB Down link
Port to Port Group Delay	Less than or equal to 1 ms
Noise Figure	Less than or equal to 5 dB
Impedance	50Ω

3.1.1 RF features



3.1.2 The Instrumental features and characteristics



Items	Specifications
Power	DC 7.5V 0.7A
Power Supply	External Supply Input
Status Display	STN Graphic LCD
Size	160 x 200 x 75 (W x H x D) mm 6.23 x 7.87 x 2.95 (W x H x D) inches
Temperature range	-20°C ~ 40°C
Warranty period	1 year



3.1.3 Antenna Features

Items	Specifications
Operating Frequency	1930MHz ~ 1990MHz 1850MHz ~ 1910MHz
Pattern	directional
Antenna Gain	8dBi
VSWR	1 : 1.5
Beamwidth	120°
Impedance	50Ω

3.1.4 VFD features

Items	Specifications
Type	Positive
Sizw (W x H x T)	80.0 x 36.0 x 10.5 mm
Viewing Area (W x H)	64 x 16 mm
Weight	45g
Voltage	Max 5.5V
Operating temp	-20 ~ +70 °C



4. The Operation of Equipment

4.1 The order of Equipment installation

Find the best window receiving the best powerful signal of Handy-phone in checking out every corner of home or office by using the handy-phone.

Take the suitable place and install the repeater safely in the window.

Connect the AC adapter in the repeater and plug in the power.

4.2 The equipment Operation

S1 system is as an exclusive CDMA repeater in the US PCS band, performing on relaying the received signal from the Base Station and outputting to the mobile terminal (forward), relaying the received signal from the mobile terminal and outputting to the Base Station (Backward).



5. Troubleshooting

5.1 Not turn on the power VFD or light in the Front.

→ Cause

- When does not connect the cable in the Power supply
- When Back Light function does not work.
- VFD abnormal

→ Correction

- Check out the Power connection (reset the power)
- Check out if the Back Light has no problem.
- Check out the VFD connection and if not problem, replace.

5.2 Does not come out the signal on repeater.

→ Cause

- When the repeater not RF ON
- When the channel (1~12CH) of repeater doesn't meet the signal from the BTS.

→ Correction

- Turn on the repeater system on pressing the channel switch 2
- Press the channel switch 1 and go though the work from 1~12
- Check out the connection part of power in the PCS of repeater.
- Check out being delivered any notice on the repeater for the abnormal work or strange signal.



INFORMATION TO THE USER

“Note: The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.”

“CAUTION: RF Exposure to Radio Frequency Radiation.

This equipment must be installed and provided minimum separation distance of 20 cm from the body of user and near by person. In addition to separation distance, this device cannot be transmitted and operating in conjunction with any other transmitter or antenna.