NeoTel-811 Specification.

Operating Specifications

- IS-95A,B CDMA Protocol Support
- Standard RS-232 Interface
- Air Interface: IS-95B (Tx 824-849 MHz, Rx 869-894 MHz, CDMA only)
- Channel Bandwidth: 1.25 MHz
- Maximum Output Power : Max 250mW [24dBm]
- Voice Coding: IS-96A 8K QCELP(9.6Kbps),
             IS-125A 13K QCELP(14.4Kbps), PN-3292(IS127) 8K EVRC
- SMS: IS-637
- Data Service: IS-707A
- OTASP: IS-683

Electrical Specification

- Phone AC Power Supply input range : 100 ~ 250VAC, 50/60Hz
- SMPS Output voltage : 9V / 1.5A
- Backup Battery [Internal Type]
    - Battery Cell : Ni-Cd
    - Voltage / Capacity = 7.2V[1.2V * 6cells] / 950mAh

Environmental spec.

- Operating temperature : 0 ~ 50 ^{0}C
- Storage temperature : -10 ~ 60 ^{0}C
- Humidity : 5~85 %RH

Visual Display

- 4-Line Character LCD
- RSSI(Received Signal Strength Indication) [Green / Yellow / Red]
- Voice Mail notification [Green]
- Battery Status [Green / Yellow / Red]

Accessory

- Dipole Antenna
- AC Adaptor [9V/1.5A SMPS]

RF Specifications.

- **Transmitter Spec**

Item	Description
Frequency Range	824.640 – 848.370 MHz
Channel Capacity	20 channel
Channel Spacing	1.25MHz
Tx Power	Max 250mW [24dBm]
Modulation Technology	OQPSK
Freq. Accuracy/stability	MS reverse carrier Frequency = BS forward carrier Frequency – 45MHz ±300Hz
ACPR ± 1.25MHz	−45dBC
Traffic ρ	> 0.944
Range of Open Loop Power Control.	Received PWR+Tx PWR = −73dBm→800MHz
Maximum RF OutPut Power	Ior = −104 dBm/1.23MHz Pilot Ec/Ior = −7dB Traffic Ec/Ior = −7.4dB
Minimum Controlled Output Power	Ior = −25 dBm/1.23MHz Pilot Ec/Ior = −7dB Traffic Ec/Ior = −7.4dB
Conducted Spurious Emissions	More than 1.265MHz −42dBc/30kHz

- **Receiver Spec.**

Item	Description
Frequency range	869.640 – 893.370 MHz
Channel Capacity	20 Channel
Channel Spacing	1.25 MHz
Sensitivity & Dynamic range	< −104dBm : FER < 0.5 %
Single Tone Desensitization	< −101dBm at Fc : FER < 1% with 95% reliabiblity
Inter-modulation : Spurious Response Attenuation	FER < 1% with 95% reliability
	< −101dBm at Fc ±0.9MHz /±1,7MHz, tone pwr = −43dBm
	< −90dBm at Fc ±0.9MHz /±1,7MHz, tone pwr = −32dBm
	< −79dBm at Fc ±0.9MHz /±1,7MHz, tone pwr = −21dBm
Conducted Spurious Emissions	< −81dBm measured at antenna connector by 1MHz resolution bandwidth in the receive band of MS
	< −61dBm measured at antenna connector by 1MHz resolution bandwidth in the transmit band of MS

NeoTel–811 Manual RF Power Calibration method

Connect NeoTel-811 with E8285

1.Turn-On the NeoTel-811

2. Keying #*8378*#   sequentially

3. keying [UP] key twice

4. Enter the channel number to calibrate

5. Keying   [UP] key.

5. Control the Tx Power   considering the AGC value displayed   on LCD.

   -　to increase the Tx Power, Keying [*] key

   -　to decrease the Tx Power, Keying [#] key

6. To end,   Keying   [END] key twice.

7. and then NeoTel-811 will be auto rebooted .