

1. Specification

General

Item	CDMA	Standalone GPS
Tx Freq. range	824.04 ~ 848.97MHz	-
Rx Freq. range	869.04 ~ 893.97MHz	1575.42MHz
Channel Bandwidth	1.23MHz	2MHz
Channel Spacing	30KHz	Not Used
Number of Channel	832	1
Duplex Separation	45MHz	-
Type of Emission	1M25F9W	-
In/Output Impedance	50Ω	50Ω
Tx Local Frequency	$F_{Tx} * 1.6666$	-
Rx Local Frequency	$F_{Rx} * 2$	$F_{Rx} * 2$
TCXO Frequency	19.2MHz	19.2MHz
Freq. Stability	$(F_{Rx}-45MHz) \pm 300Hz$	-
Operating Temperature	-30°C ~ +60°C	-30°C ~ +60°C
Supply Voltage	12.0 V	
Size	161 x 63.5 x 24 (L x W x H) mm,	
Weight	143g	

1) CDMA(800MHz)

A. Transmitter

Waveform Quality : 0.944 or more

Open Loop Power Control Range

. -25dBm : -57.5dBm ~ -38.5dBm

. -65dBm : -17.5dBm ~ +1.5dBm

. -104dBm : +18.0dBm ~ +30dBm

Minimum Tx Power Control : below -50dBm

Closed Loop Power Control Range : ± 24 dB

Maximum RF Output Power : 25dBm

Occupied Bandwidth : 1.23MHz

Conducted Spurious Emission @ 0.9 MHz: -42dBc/30kHz

@ 1.25 MHz: -54dBc/30kHz

B. Receiver

Rx Sensitivity and Dynamic Range :-104dBm, FER=0.5% or less

-25dBm, FER=0.5% or less

Conducted Spurious Emission

. 1930 ~ 1990MHz : < -81dBm

. 1850 ~ 1910MHz : < -61dBm

. All Other Frequencies : < -47dBm

Single Tone Desensitization : lower than 1 %

Rx Power = -101dBm

Tone Power = -30dBm

Tone Offset from Carrier = ± 0.9 MHz

Intermodulation Spurious Response Attenuation : lower than 1 %

Rx Power = -101dBm

Tone Power 1 = -43dBm

Tone Power 2 = -43dBm

Tone 1 Offset from Carrier = \pm 0.9 MHz

Tone 2 Offset from Carrier = \pm 1.7 MHz

2) Standalone GPS

Location Accuracy

For 67% of calls : less than 50 meter

For 95% of calls : less than 150 meter

Telit-GPS

Features

- CDMA 1X Car Phone
- Standalone GPS Service
- Voice/Data Service
- Standalone RS-232 Interface (1 UART)
- External Speaker
- External MIC
- Ear-Phone Detection
- Pelephone Navigator

Mechanical Spec.

- Dimension : 161x 63.5x24 (L x W x H)
- Weight : 143g
- Antenna : External Type (CDMA, GPS)
- Type : Bar Type
- Data interface : 18-pin I/O Connectors



Telit Wireless Solutions Co., Ltd.
9th FL., Daewoo Securities Bld., 34-3
Yeouido-dong, Yeongdeungpo-gu,
Seoul, 150-716, Korea
Tel: +82-2-368-4600
Fax: +82-2-368-4606

General Spec.

- CDMA Frequency Band
 - Receive Frequency Range : 869-894MHz
 - Transmitting Frequency Range : 824-
- Air-Interface : IS-95A/B, CDMA 2000 1xRTT
- Data Transmission Speed : up to 153.6Kbps (Forward & Reverse Simultaneously)
- GPS Frequency : 1575.42MHz

Electrical Spec.

- Maximum RF Output Power : $\geq 23\text{dBm}$
- Zero IF
- Receiver Sensitivity : $\leq -104\text{dBm}$ (FER = 0.5%)
- Nominal Operation Voltage : DC 3.9 \pm 0.3V
- Power Consumption
 - Receive Mode : about 32mA
 - Transmit Mode : about 160mA@-75dBm
- Environmental Condition
 - Storage Temperature : -30 ~ +70 °C
 - Operating Temperature : -20 ~ +60 °C

