

OPERATIONAL DESCRIPTION

APPLICANT:

Shenzhen Hojy Wireless Co., Ltd.

Manufacturer:

Shenzhen Hojy Wireless Co., Ltd.

FCC ID: Y7X-W668

Instruction Book:

W668 Product Manuals

Frequency Range

GSM

Transmit Frequency Band: 824-849 MHz

Receive Frequency Band: 869-894 MHz

Transmit Frequency Band: 880~915 MHz

Receive Frequency Band: 925~960 MHz

Transmit Frequency Band: 1710~1785 MHz

Receive Frequency Band: 1805~1880 MHz

Transmit Frequency Band: 1850-1910 MHz

Receive Frequency Band: 1930-1990 MHz

WCDMA

Transmit Frequency Band: 1920~1980MHz

Receive Frequency Band: 2110~2170 MHz

Transmit Frequency Band: 1850~1910 MHz

Receive Frequency Band: 1930~1990 MHz

Transmit Frequency Band: 824~849 MHz

Receive Frequency Band: 869~894 MHz

Specific Operating Power Range:

GSM output power (GMSK modulation):

GSM 850 33 dBm, Class 4 (2 W)

GSM 900 33 dBm, Class 4 (2 W)

GSM 1800 30 dBm, Class 1 (1 W)

GSM 1900 30 dBm, Class 1 (1 W)

EGPRS output power (8-PSK modulation):

GSM 850 27 dBm, Class E2

GSM 900 27 dBm, Class E2

GSM 1800 26 dBm, Class E2

GSM 1900 26 dBm, Class E2

WCDMA output power (QPSK, 16-QAM)

Class 3, 24 dBm

DC Voltage and Current into the Final Amplifier Module:

Supply Voltage = 3.3Vdc

Supply Current = ~1Amp.

Tune-up Procedure:

Tune-up Procedure

Equipment Identification:

Equipment's Identification label and its intended Location are as shown in EXHIBIT Type "ID Label / Location Information" (FCC ID Nameplate), and in EXHIBIT Type "Internal Photo"(Photograph of inside)

Photographs:

A complete set of the Photographs showing External and Internal Views of Circuit Details and Construction are provided by from EXHIBIT Type "External Photos" and "Internal Photos".

Accessories:

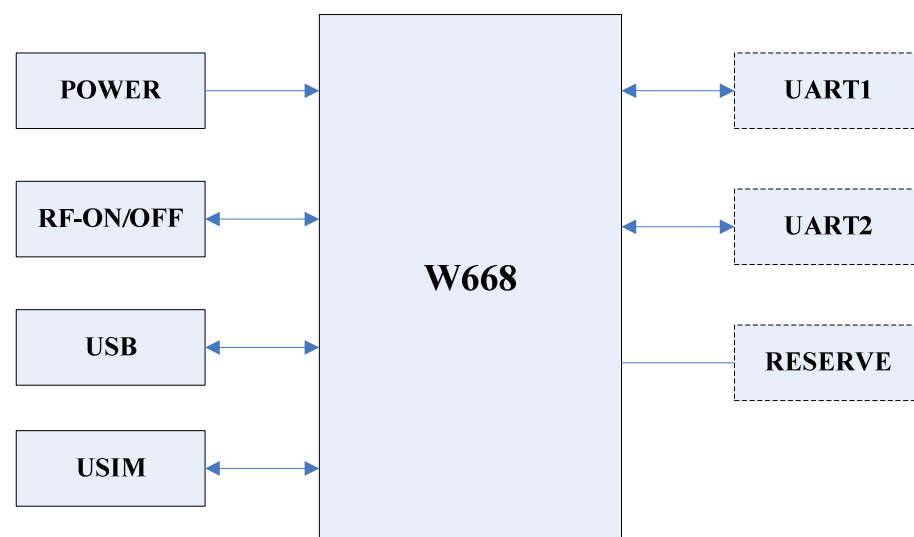


Figure: Terminal Components (Accessories)

Technical Descriptions

RF: GSM and WCDMA of the RF share the same Transceiver, including the following parts. Transceiver: RF3400 modulates both GSM and WCDMA RF signal. It also supports 8PSK modulation of EDGE-WCDMA, HSUPA signal and modulation.

FEM:

1. From the GSM Transceiver RF signal power amplifier to support GMSK and 8PSK modes to achieve GSM-PA function;
2. Send and receive signals from various quarters of the WCDMA, managed to achieve an antenna switch function.

WCDMA-PA: a total of three chips, respectively, from the Transceiver's I, II, V-band RF for power amplification, with three operating modes and high amplification efficiency.

Digital Modulation:

Digital baseband processor: The DB3350 baseband processor, the internal integration ARM926EJ, contains numbers of peripherals extensional possibilities & integrated communication DSP, to achieve the machine's control, communications protocol processing, and external interface. Analog baseband processor: The AB3100, the corresponding control voltage for each group, using I2C interface.

The Data Required (EXHIBIT "Test Report"):

- (2.1046) RF power output
- (2.1047) Modulation characteristics
- (2.1049) Occupied bandwidth
- (2.1051) Spurious emission at antenna terminals
- (2.1053) Field strength of spurious radiation
- (2.1055) Frequency stability
- (2.1057) Frequency spectrum to be investigated