

Understanding Dual SIM Mobile Phone

Scientech 2132A

TECHBOOK

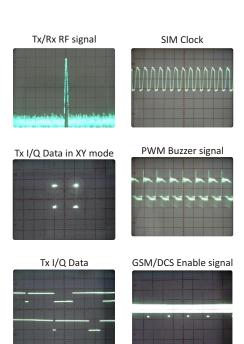


Scientech 2132A Understanding Dual SIM Mobile Phone TechBook is a unique, self contained, easy to operate, training platform that demonstrates the complete arrangement of a 2G Dual SIM GSM handset to understand the working of the mobile phone.

Scientech 2132A Understanding Dual SIM Mobile Phone TechBook is the perfect product for today's global technical professional. One of the main features of the TechBook is its real time signals. This realistic classroom training TechBook introduces the user to the fundamental of 2G Dual SIM GSM mobile equipment and clears the concept of underlying GSM technology in simple way. The Keypad of mobile handset, SIM sockets and User Interface section of the mobile phone i.e. Vibrator, Buzzer, Microphone, Speaker, Hands free port and display LEDs have been exposed onboard with switched faults creation facility and 58 test points for signal observation and detailed study. Also its attractive features and self explanatory multicolored chart containing useful technical information will help user in creating a full understanding of dual SIM mobile phone system.

Features

- Real time mobile operation
- Operates on dual band frequency network (GSM 900/ DCS 1800)
- Colour TFT display
- Full understanding of Dual SIM mobile phone working
- Provides study of all sections in Dual SIM mobile phone
- Tx/ Rx frequency measurement and band verification
- 2G technology GMSK signal
- Detail study of User Interface Control signals
- Detail study of Dual SIM operation
- Battery identification and charging study
- Switched faults



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Technical Specifications

Cellular system

Rx Frequency band

Tx Frequency band

Output Power

SIM support

Battery type

Test points

Switched fault

Power Supply

Dimension (mm)

Operating Condition

Included Accessories

Battery (Li-Ion 1000mAH)

Patch cord 16"

Hands free kit

Mains cord

Fuse

Weight

Power Consumption

On board sections

Display

CPU

Sound

Channel spacing

TECHBOOK

: EGSM/GSM 900; DCS1800

: EGSM 900 - 925 to 935 MHz

GSM 900 - 935 to 960 MHz

DCS 1800 – 1805 to 1880 MHz : EGSM 900 – 880 to 890 MHz

GSM 900 - 890 to 915 MHz

DCS 1800 - 1710 to 1785 MHz

: TFT, 256K colours, 128X168 Pixels, 2.0"

: Speaker and Earphone Jack (3.5mm)

: Keypad, Dual SIM, Charging Circuit,

User interface: Buzzer, Vibrator, Mic,

Speaker, Hands free port and display LEDs

-1no.

-2 nos.

-1 no.

-1 no.

-1 no.

: Smart Dual SIM, Dual stand by (both GSM)

: +5... +33dBm/3.2mW... 2 W

(2G-Dual Band)

: 200 KHz

: 208 MHz

: 58 nos.

: 35 nos

:1A

Features that can be set : Screen saver, Ring tones, Logos, SMS etc.

: 3.6VA (approximately)

: 100 - 260V AC, 50/60 Hz

: W 326 x D 252 113 x H 52

: 2.5 Kg (approximately)

: 0-40°C, 85% RH

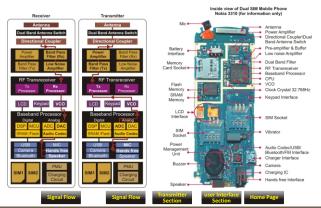
: Li-Ion 1000mAH

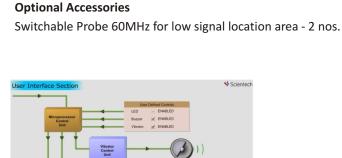
Sco	ne	of	lea	rni	ng
300	hc	U	LCa		пg

Study and observe

- Transmitted/Received RF signals
- Tx IQ/ Rx IQ signals
- Signal constellation of GMSK signal (Rx I/Q)
- Signal constellation of GMSK signal (Tx I/Q)
- Measure Battery voltages the Battery charging phenomena
- Analyze the Buzzer section
- Analyze the vibrator section
- Analyze the LED control section
- Analyze MIC & Speaker section
- Analyze the Hands Free section (MIC/Speaker)
- Measurement voltages of Power management unit
- Observe signals of LCD display section
- Analyze Microprocessor Control unit
- Switch faults in User Interface Section
- Analyze the 'Partially ON' mode of phone while charging
- Switch faults in Battery section
- Switch faults in LCD display section
- Row/ Column configuration of key matrix
- Switch faults in Keypad section
- Study of SIM card detection with and without inserting SIM card
- Study of switch faults in SIM interface section
- Analyze that a mobile is powered On at the alarm set time
- Analyze the active mode of a mobile phone
- Analyze the acting dead mode of a mobile phone
- Analyze the sleep mode of a mobile phone

Mobile phone working presentation software





TechBook Power Supply for Scientech 2132A

Subject to Change

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