



Feature: This is an experimental experiment for users to learn basic concept of the full duplex wireless system and mobile telecommunication.

- * Full Duplex Voice & Data Communication
- * Half Duplex Voice & Data Communication
- * Practice of RF interference & Mobile environment
- * Chatting by using your own computers
- * Board level and full system level experiments are available by using one set
- * Auto mode and Manual mode are selectable
- * 16 x 2 character LCD
- * LED indicator
- * Overload protection

Specifications:

Communication Methods: Full Duplex/ Half Duplex

Channel Access: Multi-Channel Access

Frequency Range: Base unit: 46.51 ~ 46.97MHz

Mobile unit: 49.67 ~ 49.99 MHz

Output Power: +4.5 dBm (Max)

Channels: 15 Duplex Channels

Bandwidth/ Channel: 25 KHz

Modulation: FM

Frequency Stability: less than 5 ppm

Receiving Sensitivity: Over 20dB SINAD at -100 dBm

Auto Channel Scan Time: less than 200 ms

Data Rate: 2400 bps

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Experiment Steps:

1. Board Unit Module Experiment: Power, Audio, Radio Frequency
2. Half Duplex Audio and Data Experiment: Half Duplex Transmitting and Receiving Experiment
3. Full Duplex Audio and Data Experiment: Full Duplex Communication Experiment
4. Mobile Environment Experiment: RF Interference Experiment among Systems
5. Data Communication: Chatting Practice by Serial Communication

Training Contents:

Experiment 1: Full Duplex Mobile Telecommunication Lab Equipments

Experiment 2: Power Part

Part 2: Audio Frequency Part

Experiment 3: Condenser Mike and Limiter

Experiment 4: Compressor

Experiment 5: Pre-emphasis and De-emphasis

Experiment 6: Expander

Experiment 7: Band-pass Filter and Squelch Circuit

Part 3 Radio Frequency Part

Experiment 8: PLL Oscillator I

Experiment 9: PLL Oscillator II

Experiment 10: Transmitting Part

Experiment 11: Receiving Part

Part 4 Control Part

Experiment 12: Microcomputer and Key Matrix Control Peripheral Circuits

Part 5 Full Duplex Communication

Experiment 13: Half-Duplex Transmitting Integration Experiment

Experiment 14: Half-Duplex Receiving Integration Experiment

Experiment 15: Full-Duplex Integration Experiment

Experiment 16: Radio Environment Experiment

Experiment 17: Chatting by using Serial communication

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Standard components in the package

- 1 Base Set
- 1 Mobile Set
- 1 Experiment Manual
- 1 Program CD
- 2 RS232 cables
- 2 Handsets
- 2 AC Adapters
- 1 Carrying Case

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