

A group of Mobile Communication Trainers LT-3000 / LTE-1000

These equipments provide instructions on basic concepts of mobile communication to students who study for mobile communication, information technology and electronics.

LTE Cellular Mobile Communication



Equipments for experiment on mobile communication



LTE-1000

LT-3000





- 1) Board Unit Module Experiment : Power, Audio, Control, 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 Environmental Experiment: RF Interference Experiment Among Systems
- 5) Data Communication: Chatting Practice by Serial Communication.

Specifications:

- Communication Method: Full Duplex / Half Duplex
- * Channel Access: Multi Channel Access
- * Frequency Range:
 - Base: 46.51 ~ 46.97 [MHz]
 - Remote : 49.67 ~ 49.99 [MHz] Output Power : +4.5 [dBm] Max
- Channels : 15 Duplex Channels
- Bandwidth / Channel: 25 [kHz]
- Modulation : FM
- * Frequency Stability : $\leq \pm 5$ [ppm]
- Receiving Sensitivity: Over 20 [dB] SINAD (at -100 [dBm]) Auto Channel Scan Time: ≤ 200 [ms] Data rate: 2,400 bps

Kit Components 1) Parts for Radio Frequency board 2) Parts for Audio Frequency board 3) Parts for Power board 4) Parts for Control board 5) Microcomputer including software program 6) Handset, adaptor, coaxial cable, etc. 7) Operation Manual 8) Textbook