



This trainer kit is designed to **demonstrate and analyze the reception and demodulation of amplitude modulated (AM) signals** in communication systems. It is based on the superheterodyne principle and includes essential RF stages such as RF amplifier, mixer, local oscillator, and beat frequency oscillator. Equipped with LED indicators, audio output options, and on-board speaker, it allows learners to study AM signal reception, tuning, and demodulation in real-time. Optional interactive software provides enhanced waveform visualization for better understanding.

Application

- Study of **AM signal reception and demodulation**
- Demonstration of **superheterodyne receiver principle**
- Analysis of **RF, IF, and audio stages in a communication system**
- Fault simulation for **practical troubleshooting**
- Real-time reception using an **on-board antenna**

Product Features

- Functional block diagram with **waveform visualization**
- **On-board tuner** for AM signal reception
- **LED indicators** for signal flow and stage selection
- **On-board antenna** for wireless signal reception
- **On-board audio jack** for external connection
- **Built-in speaker** for audio output
- Option for **interactive software** for signal analysis

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



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Technical Specifications

- **Receiver Type:** Superheterodyne
- **Frequency Range:** 900 kHz – 2 MHz or better
- **Intermediate Frequency (IF):** 455 kHz or better
- **Audio Output:** Amplifier with built-in speaker
- **Receiving Media:** On-board antenna
- **Switched Faults:** 7 or more
- **Input Circuit:** RF Amplifier, Mixer, Local Oscillator, Beat Frequency Oscillator (or equivalent)
- **Test Points:** 25 or more
- **Interconnections:** 2 mm banana sockets

Accessories / Spares

- AM Signal Generator
- Coaxial Cables and Antenna
- Speaker & Headphones
- Oscilloscope Probes
- Set of Patch Cords

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