

- Wireless / Broadcast

## FM(STEREO) TRANSCIVER TRAINER

# ED-3600

- Realistic Simulation of FM stereo broadcast
- Graphical layout of block diagrams, display elements and test points
- Covers the principles of FM stereo encoder and decoder
- Experiments on stereo amplifier (equalizer, tone control, pre-amp, etc.)



### ACCESSORIES

- Board Rack(BR-3 model) : 1ea
- Circuit Connection Cord : 1set
- Microphone(Dynamic) : 1ea
- Speaker Module : 2ea
- Experimental Manual : 1ea

### OPTIONS

- Power Supply : ED-330, ED-333E or ED-333T model

## > EXPERIMENTAL MODULES (5EA)

	MODULE	CIRCUIT	EXPERIMENTS
RECEIVER SECTION MODULES (3ea)	ED-3601	FM Receiver	RF Amplifier, Local OSC. & Mixer, BPF, IF Amp & Limiter, FM Detector
	ED-3602	Stereo De-multiplexer (MPX)	Stereo Demodulation & Separation, Pilot Detector, De-emphasis
	ED-3603	Stereo Amplifier	Equalizing Amp. Pre-amp. & Tone Control, Main Amplifier
TRANSMITTER SECTION MODULES (2ea)	ED-3604	Stereo Signal Generator	Pre-emphasis, Matrix, Balanced Modulation, Sub-carrier Generator, Composite Circuit
	ED-3605	FM Transmitter	Reactance Modulation, Frequency Multiplier, AFC, Power Amplifier

## > SPECIFICATIONS

### TRANSMITTER SECTION

- Frequency Range : 88~108MHz(2-channels)
- RF Output : 100mW
- Modulation Mode : Reactance Modulation
- Frequency Control Mode : PLL
- Deviation :  $\pm 75$ kHz
- Audio Input : 0~-40dB for Microphone

### RECEIVER SECTION

- Frequency Range : 88~108MHz(FM Broadcasting Band)
- Sensitivity :  $2\mu$ V
- Intermediate Frequency : 10.7MHz
- AF Output : 0dBm

### STEREO SECTION

- Pilot Frequency : 19kHz  $\pm 5$ Hz
- Separation
  - » Above 50dB : 400Hz~1kHz
  - » Above 40dB : 100Hz~10kHz
- Frequency Response : 50Hz~15kHz
- AF Output : 2Watts x 2-Channels

### GENERAL CHARACTERISTICS

- Input Voltage : DC  $\pm 15$ V, 0.5A Max.
- Dimension
  - » Module : 420(W)x302(H) x 47(D)mm
  - » Board Rack (BR-3) : 1480(W) x 620(H) x 320(D)mm
- System Weight : 41kg