



Order Code-40613 is a Digital Communication Trainer System to understand various digital Modulation and Demodulation Techniques. Various functional block diagrams are provided on-board for Teaching/Training. This Kit provides with various Test Points to visualize the signals on Oscilloscopes.

FEATURES:

- Internal 500Hz & 1KHz Sine-wave generator.
- Two Nos. of variable Amplitude DC Level.
- 2 Nos. of Analog Input Channels.
- Error Check code option (None, Even, Odd, Hamming)
- None, Even, Odd, Hamming Parity selections.
- Pseudo random sync. code generation.
- 2 Mode of Operation Fast (240 KHz/Channel approx.) & slow (1Hz./channel approx.)
- In-Built Power Supply

LIST OF EXPERIMENTS:

- **Study of Pulse Code Modulation.**
- **To study the principles of Analog to Digital and Digital to Analog Conversion**
- **Study of Pseudo Random Sequences**
- **Study of Error Check Code Logic:**
 - None Parity Coding.
 - Odd Parity Coding.
 - Even Parity Coding.
 - Hamming Coding.
- **Study of effect of faults in Modulation & Demodulation Techniques.**

SPECIFICATIONS:

- **Sine Wave Generator**
 - Provides Sine waveform output of 500Hz, 1KHz.
 - Amplitude adjustments possible.
- **DC Source**
 - Two Nos. of variable DC source.
 - Amplitude adjustments possible Generator.
- **Mode of Operation**
 - Fast (240 KHz/Channel approx)
 - Slow (1Hz. /channel approx.)
- **On-board features**
 - Two Nos. of Input Channels.
 - Pseudo random sync. Code generator for FRAME Synchronization.
 - PLL for Bit synchronization.
 - Block Description Screen printed on glassy epoxy PCB
- **Interconnections**
 - All interconnections are made using 2mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/1.5A, ±12V/250mA with Power ON indication.
- Attractive enclosure.
- Set of 2mm Patch cords for interconnections.
- User's Manual with sample experiments programs.
- 315mm x 245mm x 105mm (L x W x H).
- Weight 3 Kgs.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

305, Taru Chhaya Nagar, Tonk Road, Jaipur-302029, India
Tel: +91-141-2724326, Mob: +91-9413330765
Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in