40555B Wireless Network Trainer is a multipurpose lab system designed for Network Lab experimentation. Built as per IEEE standards the trainer brings you the latest in technology. It helps the user to gain knowledge regarding all network layers, cable designing and building of complete network of computers. Connections can be made in different topologies and data can be transferred. The user will understand the protocols, topologies used in networking, measurement of error rate, throughput and effect of errors on protocols.

40555B comes integrated with custom software – Network software, developed for optimized performance. The software allows for understanding of performance metrics at user defined levels. Detailed packet level information is provided to the user in real time to facilitate across-the board performance analysis.

Features
- PC to PC communication with IEEE 802.3
- Wireless LAN – IEEE 802.11 b
- Token Bus - IEEE 802.4
- Network design using RJ45 connectors
- Error generation
- Real time graphical representation of entire transmission & reception
- User friendly software

Specifications
Hardware
- PC to PC communication with IEEE 802.3 using RJ-45 Connector.
- Support for Peer to peer

- Star topology using RJ45 Connector
- Bus topology using RJ45 Connector
- Data transmission speed: 10/100 Mbps
- 4 Nodes
- Block Description Screen printed on glassy epoxy PCB
- All interconnections are made using 2mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply with Power ON indication
- Input Supply Requirement : 220 V ±10%, 50 Hz / 60 Hz
- Power Consumption : 1.8 VA (approx.)
- Attractive ABS Plastic enclosures.
- Set of 2mm Patch cords for interconnections
- User's Manual with experiments and related accessories

Software
- Bus, Ethernet, Wireless Topology
- Protocols: Stop N Wait, Go back N, Selective repeat, sliding window.
- Packet size: up to 10KB (Variable)
- Inter Packet delay: 1000 – 5000 ms (Variable)
- Error generation: Acknowledgment lost, packet discard , ACK/Discard
- Complete analysis of Network & Protocols
- Graphic representation of data on s/w screen with packet details
- Network details indication of computer name, IP address, Port number, status of network, MAC address and OS on computer.
- Indication of packet serial number, file name, file size, file number, receiver name, Workgroup, receiver IP address, total packets, packet length, time out, protocol, topology, receiver, MAC address, port number, file send start time, file sent completion time, transmission time data rate(10/100Mbps).
- Socket programming & processing
- Encryption & Decryption Technique
- System Compatible: Windows7, 8, 10 Operating system of 32/64 bit

List of Experiments
- Study the working of PC to PC Communication
- Study the working of Bus Topology
- Study the working of Star Topology
- Study the working of Wireless Communication
- Study the working different protocols such as Stop and wait, Go back n, Selective repeat and sliding window.
- Study the various error generations such as Acknowledgment lost, packet discard ,ACK/Discard.
- Demonstrate and understand different types of faults

Note: Specifications are subject to change.

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