SIGMA

NETWORKING INTERFACE TRAINER

MODEL - NETINT100

This trainer provides training of hardware and software of different types of interface for networking used in Computer Networking technology.

SPECIFICATIONS

(A) HARDWARE MODULES

1.   H1 - ETHERNET - 10 Mbps

- 10 Mbps Ethernet Card   - 3 Nos.
- UTP Cables   - 10 Mtrs x 3 Nos.
- Coaxial Cables   - 10 Mtrs 2 Nos.
- Connectors   - RJ45   - 12 Nos.
- Connectors - RJ58   - 12 Nos.
- T Connectors   - 3 Nos.
- Terminators - 50 ohm   - 2 Nos.
- 10 Mbps 8 Port Hub   - 1 No.
- Power Adapter for Hub   - 1 No.

2.   H2 - ZERO NETWORK HARDWARE

- Null modem COM1 Cable   - 2 Nos.
- Null modem COM2 Cable   - 2 Nos.
- LapLink Cable LPT1   - 2 Nos.

(B) SOFTWARE MODULES

(a)   S1 - ZERO SLOT NETWORKING:

1.   WINDOWS 98 TO WINDOWS 98 DCC - SERIAL   PORT

2.   WINDOWS 98 TO WINDOWS 98 DCC - PARALLEL PORT

3.   DOS 6.22 TO DOS6.22 - INTERLINK - PARALLEL PORT

(b)   S2 - PEER-TO-PEER NETWORKING

1.   WINDOWS 98 - TO WINDOWS 98

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

EXPERIMENTS

1. To Study the Block Diagram and Working principle of networking
2. To understand different types of Networks - by Signaling Methods: Ethernet, ARCNet, Token Ring, Fast Ethernet, FDDI, Gigabit, ATM
3. To understand different types of Network topology - Bus topology, Ring topology, Star topology,
4. To study different types of Network cables - Yellow thick AUI cable, twisted Pair (UTP), Coax (Thinnet-RG58A/U), Fiber, ARCNet RG-62 cable
5. To study different types of connectors/sockets: - AUI, RJ45 (UTP), BNC, RJ58, Terminators, Patch panel
6. To Study Installation procedure
7. To connect RJ-45 connectors, BNC connectors
8. To carry out cabling between computers
9. To connect HUB
10. To install Network Software
11. To test Network installation
12. To perform different types of topology
13. To perform sharing of resources like Hard disk, CD-ROM drive
14. To carry out Zero Slot Networking (Null Modem)

Note: Three computer system - Intel 1.5GHz Computer - 40GB HD, 128 MB RAM) are required for this trainer.