



TCP IP TRAINER

MODEL - TCPIP100

This trainer provides training of hardware and software theory of TCP IP Protocol.



FEATURES

1. The different circuit boards of PC/AT Computer are exposed on a PCB of size 24" x20".
2. Section wise different coloured screen printed circuit on the PCB for easy understanding of functions of different sections.
3. Explanation, Observation and adjustment of Jumpers and Switches setting is possible at a glance.
4. Troubleshooting and fault finding procedure explained in detail.
5. Artificial Fault creation facilities are provided by switches and by software commands.
6. About more than 50 faults can be demonstrated on this trainer.
7. Easy identification of different parts of Computer at a glance.
8. Easy measurement of voltages and Observation of Waveforms. The typical voltages and waveforms are provided.
9. An Exhaustive and skilled oriented comprehensive instructional manual complete with theory explaining hardware and Software concepts having more than 100 Practicals is provided with this trainer.

SPECIFICATIONS

(A) Computer Systems (Two Numbers)

- | | | |
|-------------------------|---|-----------------------------|
| 1. CPU with fan | : | Intel Pentium IV 2.4 GHz |
| 2. Mother Board | : | 200 MHZ FSB |
| 3. Memory (RAM) | : | 128 MB SDRAM |
| 4. Display Adaptor card | : | On Board AGP 8 MB |
| 5. Hard Disk | : | 40 GB ATA |
| 6. Floppy Disk Drive | : | 1.44 MB |
| 7. Monitor | : | 15" Colour SVGA |
| 8. Key board | : | 104 Keys Keyboard |
| 9. Mouse | : | Logitech 1st Mouse with pad |
| 10. SMPS | : | 200 Watts AT |

(B) LAN Hardware

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|-------------------------------|---|-----------------------------------|
| 1. 10/100 Mbps Ethernet Card | : | 3 Nos. |
| 2. UTP Cables with connectors | : | 10 Mtrs x 2 Nos + 3 Mtrs x 1 Nos. |
| 3. 10/100 Mbps 8 Port Hub | : | 1 Nos. |
| 5. Null modem COM1 Cable | : | 1 Nos. |
| 6. Null modem COM2 Cable | : | 1 Nos. |
| 7. LapLink Cable LPT1 | : | 1 Nos. |
| 8. Modem 56 K | : | 1 Nos. |

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

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Dealer:-

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 Networks - by Arrangement type Peer-to-Peer Network, Client-Server Network
4. To understand different types of Network topology - Bus topology, Ring topology, Star topology,
5. To study different types of Network Operating systems - Netware, Netware Light, Fantastic, Windows NT, UNIX
6. To understand different types of Network Protocols - IPX/SPX, NetBEUI, TCP/IP, DLC, NETBIOS,
7. To study different types of Network cables - Yellow thick AUI cable, twisted Pair (UTP), Coax (Thinnest-RG58A/U), Fiber, ARC Net RG-62 cable
8. To study different types of connectors/sockets: - AUI, RJ45 (UTP), BNC, RJ58, Terminators, Patch panel
9. To study different types of Network Interfacing Cards - 16 bit, 8 bit, 32 Bit, ISA, PCI, EISA, MCA, NE2000 compatible
10. To study other connecting accessories - Hubs, Repeaters, Routers, Bridges, Switches, Gateway
11. To Study Installation procedure
12. To configure and install Network cards IRQ, I/O port address, DMA channel,
13. To connect RJ-45 connectors, BNC connectors
14. To carry out cabling between computers
15. To connect HUB
16. To install Network Software Server Software, Client software,
17. To test Network installation
18. To perform different types of topology
19. To understand method of connecting LAN to Internet
20. To understand OSI network layers
21. To perform sharing of resources Printer, Hard disk, CD-ROM drive
22. To carry out Zero Slot Networking
23. To understand upgrading methods
24. To understand Tuning and speed up methods
25. To understand safety rules on networking
26. To understand and perform preventive methods - Backups, Security, Virus protection
27. To send E-Mails on network
28. To demonstrate and understand different types of faults
29. To study faults diagnosis method
30. To study glossary of the Technical Words