OMEGA®
A SIGN OF QUALITY PRODUCT

LAN TRAINER
OMEGA TYPE LAN-1011

OMEGA TYPE LAN - 1011 LAN trainer is a versatile desktop system that provides hands on experimentation & understanding of local area Networks. The field being diverse, this trainer has been designed with an aim to touch upon the various aspects of LAN's such as hardware & cabling, software configuration & protocols.

The LAN trainer is supplemented by a set of 4 exhaustive manuals covering the various aspects of LAN's. The unique feature of this trainer is an onboard Hub & Cabling setup via jumpers so as to minimize the loss of expensive cable during training.

OBJECT -

Study of LAN (Local Area Network)

FEATURES

01 Three sets of onboard cabling setup for Ethernet.
02 On board parallel port direct cable connection setup.
03 On board serial port direct cable connection setup.
04 A 10 mbps hub is provided onboard with the circuitry exposed.
05 The power supply circuit for Hub is provided onboard.
06 A separate Hub is also provides so to train students for multi Hub Networking.
07 A set of 4 exhaustive manuals covering LAN hardware & cabling, software configurations protocols, terms & definitions.
08 The trainer comes with a cable fabrication kit to provide hands on experience on real cabling.

SPECIFICATION

LAN HARDWARE

01	10/100 Mbps Ethernet Card	: 3 Nos.
02	UTP Straight cable with Connectors	: 3 Nos. (5 mtr Each)
03	UTP Straight cable with Connectors	: 3 Nos. (1/2 mtr Each)
04	UTP Cross Cable with connectors	: 1 Nos. (3 mtr.)
05	Straight Parallel port cables 25Pin	: 2 Nos. (1.25 mtr Each)
06	Straight Serial port cables 9 Pin.	: 2 Nos. (1.25 mtr Each)
07	8 port 10 Mbps Hub.	: 2 Nos.
08	Patch cords 2mm. 7" Red.	: 22 Nos.
09	Patch cords 2mm. 7" Black.	: 5 Nos.
10	Cable fabrication kit.	: 16 Nos.RJ 45 male connectors. : 1 Nos. crimping tool. : 20 mtr. UTP cables.
11	Manuals	: In four Volume.

TRAINING PACKAGES AND EXPERIMENTS

1.00 LAN HARDWARE AND CABLING

1.01 Setup a network between 2-8 Computers using Hub and straight cables.
1.02 Setup a network between two Computers without using Hub by using Cross cables.
1.03 Multi Hub Networking.
1.04 Setup a networking between Two computers using parallel port direct cable connection.
1.05 Setup a networking between Two computers using serial port direct cable connection.

continue..2

OMEGA ELECTRONICS

Works:
28E & F, Malviya Industrial Area,
Jaipur-302 017 (INDIA)
Phone: 0141-2751559

E-mail : info@omegaelectronics.net
: omegajaipur62@gmail.com

www.omegaelectronics.net

Marketing Division:
B-28, Fateh Singh Scheme, Opp. Rajputana Palace Sheraton, Jaipur-302006 (INDIA)
Phone : 091-141-2375647, 2379223

14-07-2022

OMEGA®

A SIGN OF QUALITY PRODUCT

LAN TRAINER

OMEGA TYPE LAN-1011

2.00 SOFTWARE CONFIGURATION

2.01 Networking Win9x (Adding a Network Adapter)
2.02 Setting up a Win9x Peer to Peer Network
2.03 WindowsXP Peer-to-Peer Networking
2.04 Sharing Local Resources
2.05 Adding Local or Network Printers
2.06 Adding a Network Printer With WindowsXP
2.07 Adding Workstation Print Drivers for Windows 2000 Printers
2.08 Adding NT4 Workstation Print Drivers for Windows 2000 Printers
2.09 Adding a Windows2000 Workstation to a Nt4 Domain
2.10 Configuring Dial-Up Internet Access with Windows9x (Adding the Dial-Up Adapter)
2.11 Windows2000 Dial-Up Internet Connection
2.12 Dial-Up Server (Installing and Configuring Dial-Up Server)
2.13 Windows2000 Networking Changes
2.14 WindowsXP Remote Assistance
2.15 WindowsXP Remote Desktop
2.16 Sharing a Fax/Modem on a Network
2.17 Configuring a machine running Windows 95/98/ ME to use DHCP.
2.18 Configuring a machine running Windows 2000 Professional Edition to use DHCP.
2.19 Configuring a machine running Windows NT 4.0 to use DHCP.
2.20 Configuring a machine running Windows XP to use DHCP.
2.21 Configuring a Windows 2000 VPN Server
2.22 Windows2003 VPN Server
2.23 WindowsXP VPN Server
2.24 Windows98 VPN Client
2.25 WindowsXP VPN Client
2.26 DNS Concept
2.27 How DNS Works
2.28 Various DNS Configuration
2.29 How Reverse - Lock up works
2.30 DNS Terms
2.31 Third Level Domains
2.32 Setting up MS DNS
2.33 MS DNS and Forwards
2.34 MS DNS Server as a Secondary
2.35 Client Side Caching (Offline Files)
2.36 Troubleshooting Internet
2.37 Troubleshooting TCP / IP Networks
2.38 Network Commands

3.00 STUDY MANUAL

3.01 Communicaton and Network Concepts
- 3.01.01 Introduction
- 3.01.02 What is a Network
- 3.01.03 Need for Networking
- 3.01.04 Evolution of Networking
- 3.01.05 Switching Techniques
- 3.01.06 Transmission Media
- 3.01.07 Data Communication Technologies
- 3.01.08 Types of Networks
- 3.01.09 Network Topologies
- 3.01.10 Network Devices
- 3.01.11 Communication Protocol
- 3.01.12 Wireless/ Mobile Computing
- 3.01.13 Internetworking Terms and Concept
- 3.01.14 Network Security

3.02 The TCP/IP and OSI Networking Models
3.03 Data Link Layer Fundamentals : Ethernet LAN's
3.04 Fundamentals of WAN's
3.05 Fundamentals of IP
3.06 Fundamentals of TCP and UDP
3.07 Virtual LAN's and Trunking
3.08 LAN Cabling,Standerds,and Topologies
3.09 IP Addressing and Subnetting

4.00 STUDY MANUAL

4.01 Network Topology
4.02 Network Hardware Connections
4.03 TCP/IP Ports and Addresses
4.04 Network Protocol Levels
4.05 IEEE 802 Standard
4.06 Network Categories
4.07 Network Devices
4.08 Address Resolution Protocol (ARP and RARP Address Translation)
4.09 Basic Addressing
4.10 Internet Protocol
4.11 Transmission Control Protocol
4.12 User Datagram Protocol
4.13 Internet Control Message Protocol
4.14 Network Cabling
4.15 Wireless Networking
4.16 Network WAN Connections
4.17 Ethernet
4.18 Token Ring
4.19 ARC net Network (Attached Resource Computer Network)
4.20 AppleTalk Network
4.21 FDDI (Fiber Distributed Data Interface)
4.22 IPX/SPX
4.23 NetBEUI
4.24 AppleTalk Protocols
4.25 System Network Architecture
4.26 Other Transport Protocols
4.27 Network Routing
4.28 More Complex Networking Routing
4.29 IP Masquerading
4.30 Firewalls
4.31 Domain Name Service (DNS)
4.32 Virtual Private Networking
4.33 DHCP
4.34 BOOTP
4.35 RPC and NFS
4.36 Internet Group Management Protocol
4.37 Dynamic Routing
4.38 Simple Mail Transfer Protocol (SMTP)
4.39 Simple Network Management Protocol
4.40 Network Services (Networking Services and Ports)
4.41 Wide Area Networks
4.42 Network Backup
4.43 Network Fault Tolerance
4.44 Network Trouble Shooting
4.45 Network Drivers
4.46 Network operating systems (NOS)
4.47 Network Applications
4.48 Peer to Peer Vs Client / Server Networks
4.49 Network Terms

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

Works:
28E & F, Malviya Industrial Area,
Jaipur-302 017 (INDIA)
Phone: 0141-2751559

E-mail : info@omegaelectronics.net
: omegajaipur62@gmail.com

www.omegaelectronics.net

Marketing Division:
B-28, Fateh Singh Scheme, Opp. Rajputana Palace Sheraton, Jaipur-302006 (INDIA)
Phone : 091-141-2375647, 2379223

14-07-2022