

TELECOMMUNICATIONS



TCP/IP NETWORKS



DL 3155E74

CIRCUIT BLOCKS

The hardware of the DL 3155E74 board is composed by two identical sections:

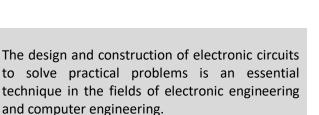
- Client
 - Microprocessor
 - LCD graphic display
 - Ethernet interface
- Server
 - Microprocessor
 - LCD graphic display
 - Ethernet interface

Complete with theoretical and practical manual.

Dimensions of the module: 297x260mm.

THEORETICAL TOPICS

- Introduction to local networks: components of a network, transmission media, network topologies, the OSI Model, LAN architectures / technologies / standards, Network devices and operating systems
- OSI model and LAN IEEE protocols
- Physical layer: Ethernet: 10 Mbps (10 Base-T), Fast Ethernet: 100 Mbps, Gigabit Ethernet: 1000 Mbps.
- Data link layer: Introduction to data link layer, LLC sublayer, MAC sublayer, CSMA/CD access method, token ring and token bus
- TCP/IP Protocols: Introduction to TCP/IP, IP Protocol, TCP Protocol, UDP Protocol, ICMP Protocol
- Session and application layers: NetBIOS, NetBEUI, IPX/SPX, FTP, E-Mail, World Wide Web, test and diagnostics TCP/IP tools
- Structured wiring: cabling standard, structured cabling topology, ,main elements and nomenclature, horizontal cabling
- Network architectures: Peer-to-Peer network, Client and Server network.



With this board the students can study TCP/IP networking principles and the installation, configuration and maintenance of Local Networks:

- Network installation and configuration.
- Maintenance, monitoring, testing and troubleshooting of LANs.





CAI SOFTWARE:

Each board of the TIME system can be supplied complete with a Student Navigator software that allows students to perform their learning activities through a Personal Computer, without the need for any other documentation.

Ordering code: please add SW after the code of the board (i.e. DL 3155E74SW)



Required:

POWER SUPPLY NOT INCLUDED

Base frame with power supply (completed with connecting cables):

> DL 3155AL3 - Base frame with power supply and interface to pc and virtual instrumentation

