

Data Communications and Networking are one of the fastest growing segments today. The major reason for this growth is the dramatic increase in Networked offices, PC based products and internet users. More Students are taking courses to learn about them.

Designed to assist students and practitioners to understand the various methods of exchange of data between two devices.

It is designed to be user friendly and it supports self learning through the flexibility of making the connections by the user itself. For proper understanding of various protocols in serial and parallel communication, various experiments can be performed. In depth knowledge of ports and its functional details can be studied with the use of the supporting software provided. Manuals and notes help the user to understand the major terminologies and theory related to Data Communication.

- Pin to pin study of serial and parallel port
- Different methods of serial communication
- Different methods of parallel communication
- Wireless communication (IR/RF)
- Full duplex fiber optics communication
- FSK modem communication
- Software & hardware based data flow controls
- Protocols of parallel port
- Protocols of serial port
- High speed data transmission
- Visual indication by LED's for displaying data, status & control pins of port
- Printer interface
- Windows based operating software
- Switch faults in both hardware & software
- Exhaustive course material & references
- Student friendly software
- Optional application boards for serial and parallel port

Experiments that can be performed

- To Study of Serial Port
- Study of Parallel Port
- Study of Synchronous Serial Communication
- Study of Asynchronous Serial Communication
- Study of PC-PC Serial Communication using RS-232 cable
- Study of different Modem used in Serial Communication
- Study of Flow controls in Serial Communication
- Study of Protocols in Serial Communication
- Study of Fiber Optic Communication
- Study of Modem Communication
- Study of Wireless Communication
- Study of PC-PC Parallel Communication using DB25 cable
- Study of printer interface using parallel port



Serial Communication Parallel Communication Fiber Optic Communication Transmitter

Technical Specifications

Receiver

Core type

Baud rate Fiber Length Wireless Communication Infrared Transmitter Infrared Receiver **Baud rate Carrier Frequency Modem Communication** Modem type Interface type **RJ 11 Connector** Modulation Mark Frequency Space Frequency Demodulation **Mark Frequency** Space Frequency **Baud Rate** General Power Supply

Power Consumption Dimensions (mm) Accessories

Optional Accessories

Two RS-232 ports Two 25 pin LPT ports :

- Two numbers. Fiber optic LED's having peak wave length of emission 660nm
- Two numbers. Fiber optic photo detector
- Step indexed multimode PMMA plastic cable
 - 115200 bps
- 0.5 & 1m :

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: IR LED Direct TTL output : 2400 bps 38 KHz/40KHz Data Serial-RJ11 Connector Two

- **FSK** Modulation :
- 340 KHz :
- : 280 KHz
- : PLL Detector
- 340 KHz :
- : 280 KHz
- : 57600 bps
- 220 V ±10%, 50 Hz / 60 Hz on : request
- 1.8 VA (approx.)
- W 370×H 265×D 125 :
 - Two RS-232 Serial Cable Two DB25 Parallel Port cable One RJ11 RJ11 Connector Cable Two Plastic Fiber Cable **Operating Manual** Software CD Patch Cords Application boards for Serial and
 - Parallel Port

Note: Specifications are subject to change.

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