

BENCHMARK



WIRELESS LOCAL AREA NETWORK TRAINER

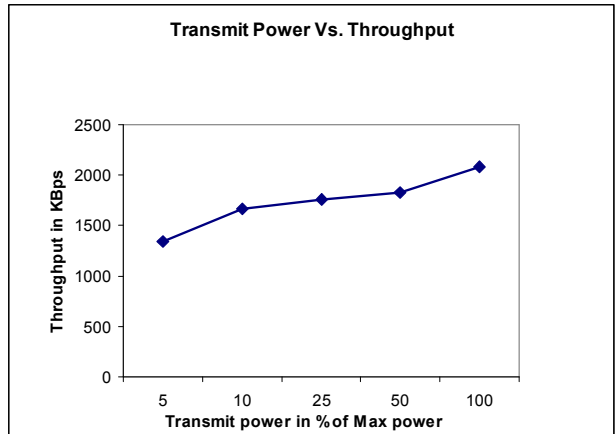
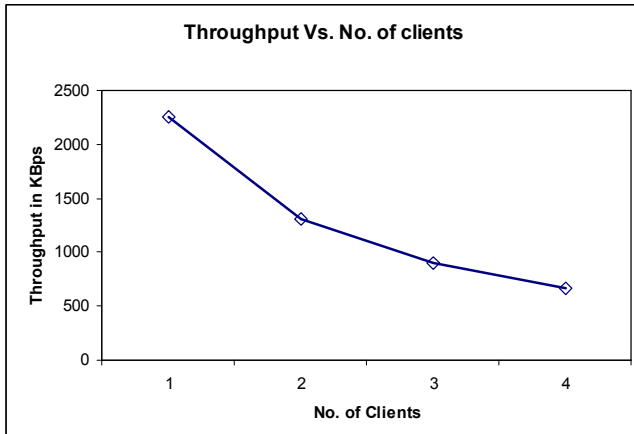


WLAN is a Wireless Local Area Network which uses the radio frequency to transmit and receive data over air for few tens of meters using the Ethernet protocol and hence allow mobility to the computers to move around within the coverage area and still connected to the network. WLAN is available in Personal computers, Laptops, mobile phones and MP3 players etc and are accessible by everyone nowadays. For designing an effective WLAN based networking, one should possess knowledge of the issues pertaining to Wireless LAN implementation.

Benchmark WLAN-T teaches the concepts and key parameters related to wireless concept. The suggested experiments give an insight into the understanding of the design considerations while implementing a wireless networking.

List of Topics

- Setting up of WLAN
- WLAN Performance
- Impact of Transmission power in a WLAN
- Distance factor for a node in a WLAN



Specification

LAN Connection	: IEEE 802.3 100 BaseT (RJ45)
LAN Ports	: One
Wireless Standard	: 802.11 b/g
Antenna	: Vertical polarized 3dBi antenna
Adjustable transmit power	: Yes
Frequency Range	: 2.412GHz – 2.4385GHz
Data Rate	: 802.11b (11Mbps) : 802.11g (54Mbps)
Transmit Power	: < 15dBm \pm 3dBm
Receiver Sensitivity	: -80dBm @ 802.11b : -66dBm @ 802.11g
DC Power	: 12V DC @ 1.5A

System Requirements

- Linux PC with FTP Server installed – 1No
- Windows PC with Hi-Speed USB interface (to plug the Wireless adapters) – 3 Nos
- Laptop – 1 no
- Open Source Wireless Networking Tool such as NetStumbler

Ordering Information

WLAN-T Benchmark Wireless Local Area Network Trainer Comprising of:

- WLAN-T Main unit
- WiFi Adapters 4nos
- WLAN-T-PS Power Supply
- WLAN-T MAN Manual

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