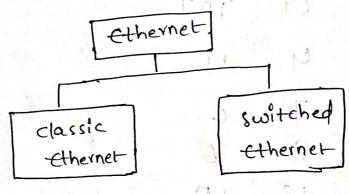
1

Ethernet:

It is most widely used LAN technology which is defined under IEEE standard 802.3

TIT is easy to understand, implement, maintain and allow low cost network implementation.

-) It also offers flexibility in terms of topologies which are allowed.



classic ethernet:

It is original form of ethernet
that provider data rater between 3 to 10 Mbps.

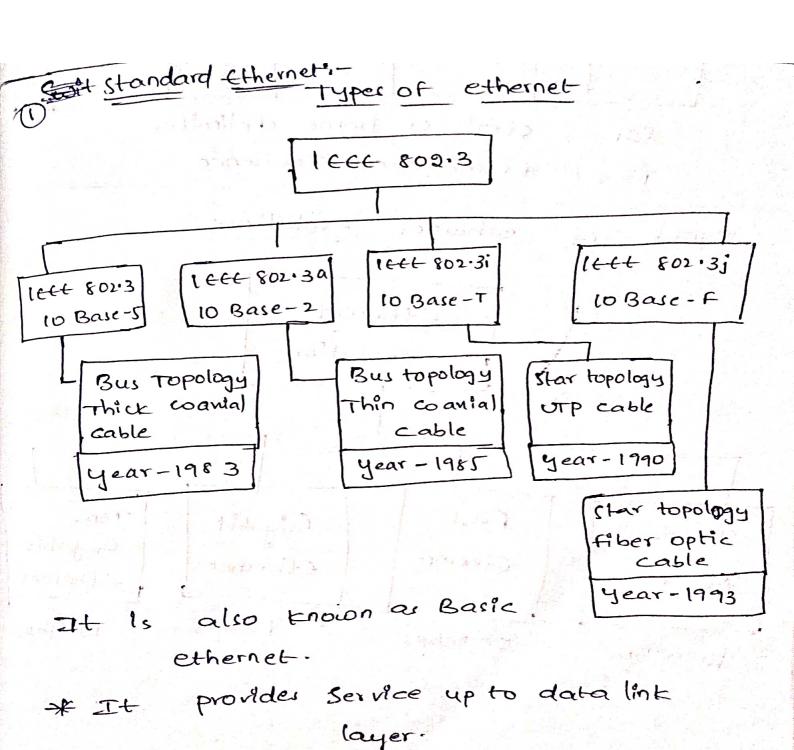
* The stations are connected by hubs that
allow each station to communicate with
every other station in LAN

Switched Ethernet:

The hub connecting the stations of the classic ethernet is replaced by a switch.

the switch connects the high speed backplane bus to all the stations in the LAN.

evolution!ethernet Te Const Ethernet evolution Fast Gigabit Standard Cligabit Ethernet ethernet Ethernet -C-thernet 196PS 10 Gbps 100 Mbps 10 Mbps



IEEE 802.3 Frame format

the state of the second second second second

field length 1 ett 802.3

in bytes

31	1	1	6	6	2	46-1100.
		Ċ	Destination	Source		802.
P	eamble	Ö	address	address	cength	header f
		F		*** 180		and K
Ĺ		1 137		1 47/3	in the second	data

SOF = start of frame delimiter FCS = frame check sequence

2) East Ethernet:

It is an ethernet standard for 100-Mbps data transmission defined by 1666 802.34 specification.

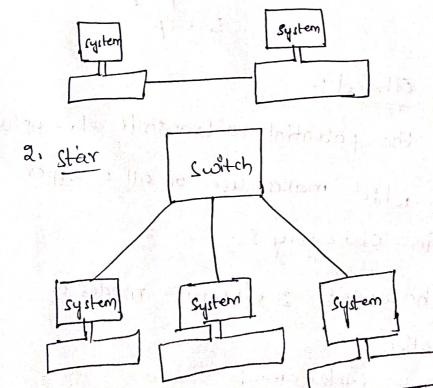
* It can transmit data lotimes faster at a rate of 100 Mbps.

The Reserve of the Hill Contract

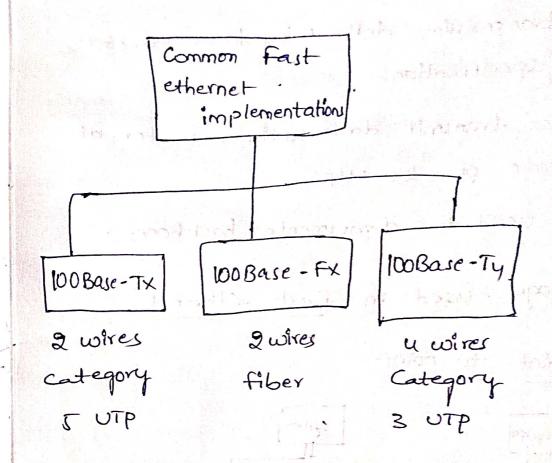
*It is used for departmental backbones.

topology used in fast Ethernet

1. point to point



Varities of fast ethernet implements cables:



(3) Chigabit Ethernet:
It has the potential to transmit data upto

1 Chops which makes use of all 4 Copper

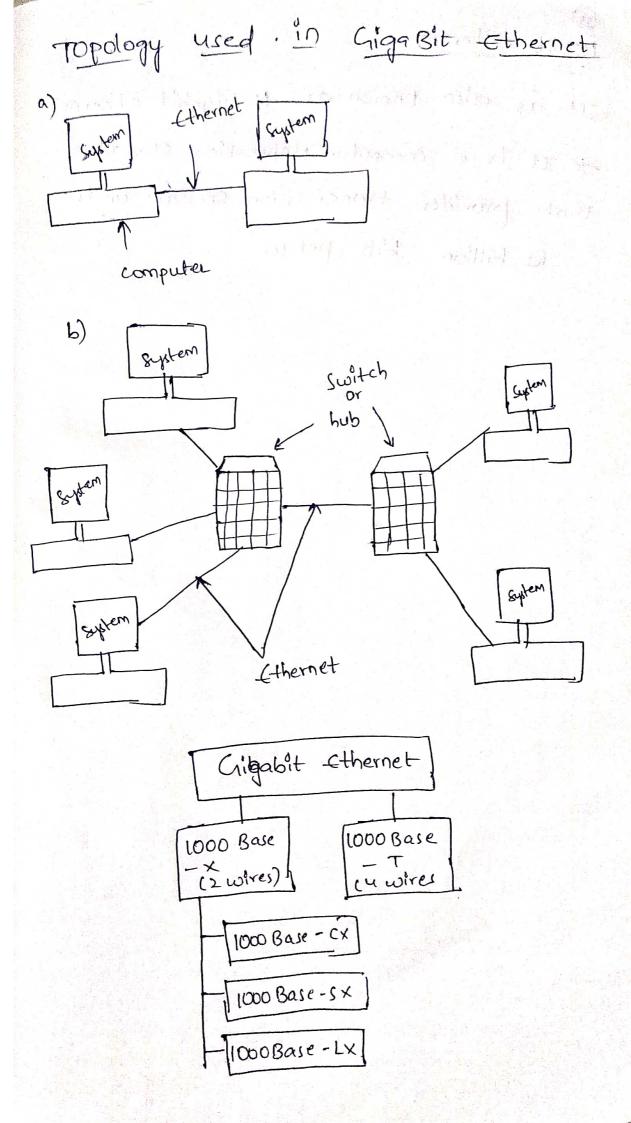
wires in category 5.

It bo supports 2 different modes of operation

-> full duplen mode

> half duplen mode.

* It uses some address, frame formit



10 Ub Ethernet

It is also known as 10 Gigabit etherner

It is a computer Networking standard

that provides transmission speeds up to

10 billion bits persec