Ethernet:Types

- Since the publication of the standard IEEE 802.3 in 1985 Ethernet has evolved from a *half-duplex* service operating at 10 Mb/s, up to a full duplex service operating at 400 Gb/s.

Type	Bit Rate	Mode	Topology	CSMA/CD	Medium
Ethernet	10 Mb/s	Half-duplex	Bus	Yes	Coaxial cable
Fast-Ethernet	100 Mb/s	Half e full duplex	Star	Yes	Copper + Fiber
Gigabit-Ethernet	1 Gb/s	Half e full duplex	Star	Yes	Copper+ Fibre
10 Gigabit Ethernet	10 Gb/s	Full duplex	Star	No	Copper+ Fibre
100 Gigabit Ethernet	100 Gbit/s	Full duplex	Star	No	Fibre
400 Gibabit Ethernet	400 Gbit/s	Full duplex	Star	No	Fibre

Half-duplex

⬇

CSMA/CD (Carrier Sense Multiple Access/Collision Detection)

Full-duplex

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Switched Ethernet