

Types of Networking Devices

Device Function Example

1. Router

- **Connects different networks together** (like your home network to the internet).
 - Routes data from one network to another.
 - **Has an IP address.**
- ✓ Example: Home Wi-Fi router (TP-Link, D-Link).
📶 Connects your devices to the **Internet**.



2. Switch

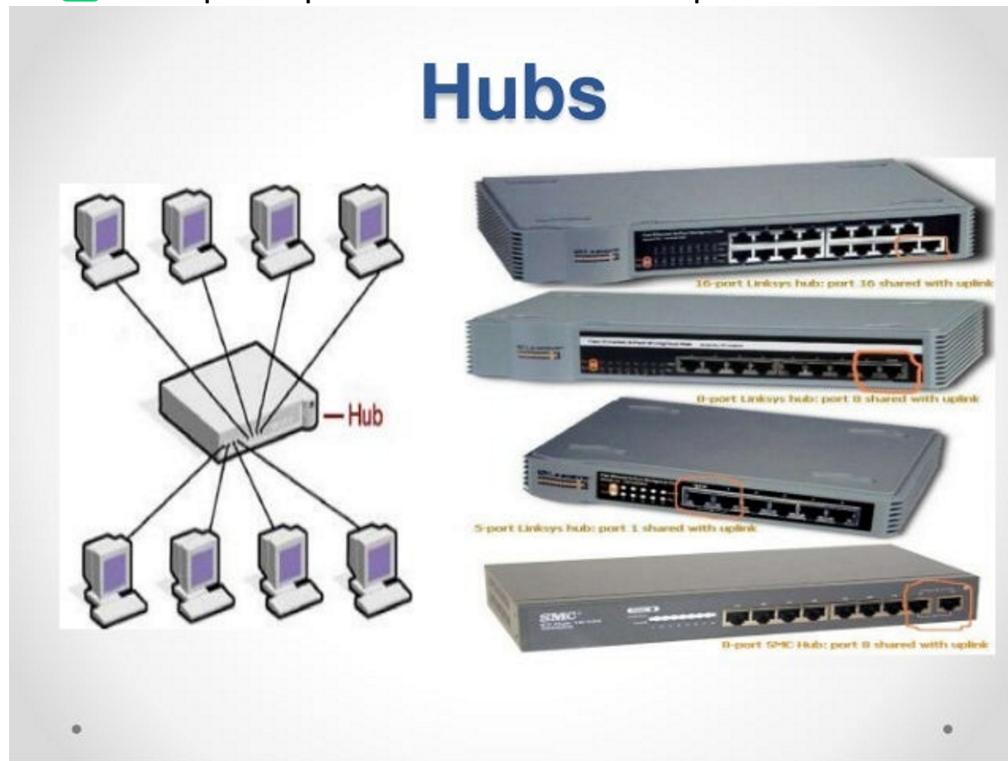
- **Connects multiple devices in a local network (LAN).**
 - Sends data only to the device that needs it (MAC address-based).
 - **Faster and smarter than a hub.**
- ✓ Example: Office network switch connecting PCs and printers.



3. Hub

- Basic device to connect multiple devices.
- **Broadcasts data to all devices**, not smart like a switch.
- Rarely used now (replaced by switches).

Example: 4-port hub in old LAN setups.



4. Modem (Modulator-Demodulator)

- Converts **analog signals** (used by telephone lines) into **digital** for computers and vice versa.
- **Connects to ISP** (Internet Service Provider).

Example: BSNL or Jio modem at home.



5. Access Point (AP)

- Provides **Wi-Fi access** to devices in a network.
 - Used in large buildings to extend wireless range.
- Example: Wireless access point in hotels, airports, offices.



7. Repeater

- Boosts or regenerates weak signals in a network.
 - Extends the range of a network (especially in long distances).
- Example: Used in large buildings or wired networks.

