

HARDWARE FOR IOT

IoT systems consist of various hardware components that handle key functions like system activation, security, communication, and data detection.



IoT Sensors

Sensors are a crucial part of IoT and include:

- **Energy Modules** – Provide power to sensors
- **Power Management Modules** – Regulate power usage
- **RF Modules** – Enable communication (WiFi, Bluetooth, ZigBee, etc.)
- **Sensing Modules** – Measure various environmental factors

Common IoT Sensors:

S.No	Sensors
1	Accelerometers, Temperature Sensors
2	Magnetometers, Proximity Sensors
3	Gyroscopes, Image Sensors
4	Acoustic Sensors, Light Sensors
5	Pressure Sensors, Gas RFID Sensors
6	Humidity Sensors, Micro Flow Sensors

Wearable Electronics

Wearable devices are small gadgets worn on different body parts. Examples:

- **Head** – Helmets, Smart Glasses
- **Neck** – Smart Jewelry, Collars
- **Arms** – Smartwatches, Wristbands, Rings

- **Torso** – Smart Clothing, Backpacks
- **Feet** – Smart Socks, Shoes

Standard IoT Devices

Traditional computing devices remain essential for IoT control:

- **Desktops** – Provide full control over IoT systems
- **Tablets** – Offer key functions and remote access
- **Cellphones** – Enable basic controls and remote management

These devices form the core of IoT operations, improving connectivity, productivity, and automation.