

What is IoT vs IIoT?

While both IoT and IIoT are based on the same fundamental concept of connecting devices to the internet, there are significant differences between the two. The Internet of Things (IoT) and the Industrial Internet of Things (IIoT) are two closely related concepts that have been gaining significant attention in recent years. There are some significant differences between the two. IoT is a term that describes the connection of everyday devices such as home appliances, wearables, and smartphones to the internet. These devices can be used to monitor and control various aspects of our daily lives, such as our health, home security, and energy consumption. The main goal of IoT is to make our lives more convenient and efficient by automating various tasks and providing us with real-time insights into our daily life. One of the key differences between IoT and IIoT is the scale of their deployment. IoT devices are typically deployed on a relatively small scale, such as in a single home or a small office. In contrast, IIoT devices are deployed on a much larger scale, such as in a factory, a refinery, or a power plant. The main goal of IIoT is to increase productivity, efficiency, and safety in industrial settings. By connecting machines and equipment to the internet, manufacturers can monitor and analyze their performance in real time, identify potential issues, and take preventive measures to avoid downtime and production losses. This means that IIoT devices need to be much more robust, reliable, and secure than their IoT counterparts, as they need to operate in harsh and challenging industrial environments. On the other hand, IIoT refers to the connection of industrial machines and equipment to the internet. Another significant difference between IoT and IIoT is the type of data that they collect and process. IoT devices typically collect data on individual user behavior, such as the temperature preferences of a particular person in a smart home. In contrast, IIoT devices collect and process data on the performance and operation of industrial machines and equipment, such as the temperature, pressure, and vibration levels of a particular pump in a manufacturing plant. Finally, the security requirements of IoT and IIoT devices are also very different. IoT devices are typically designed for consumer use and are not always equipped with the same level of security features as IIoT devices. In contrast, IIoT devices are often connected to critical industrial infrastructure, and a security breach can have severe consequences, such as downtime, loss of production, and even physical harm to employees. IoT is primarily focused on making our daily lives more convenient and efficient, while IIoT is focused on increasing productivity, efficiency, and safety in industrial settings. IIoT devices are typically deployed on a much larger scale, operate in harsh industrial environments, collect, and process different types of data, and require robust security features to protect against cyber threats. As both IoT and IIoT continue to evolve and expand, it is essential for businesses and individuals to understand the differences between the two and their unique benefits and challenges. [Brabo](#) is a Industry 4.0 platform developed by [Solulever, a Dutch technology startup](#), that provides top industrial connectivity and it combines the power of cloud and edge computing in a single package which enhances the manufacturing output for most manufacturers. It is truly the best of both worlds as it delivers centralized IT management with strong AI insights on the edge platforms. The journey starts with IoT, AI, and big data, which may be difficult to scale. But by adding edge and cloud computing together onto a single platform, a revolutionary angle can be brought to manufacturing, bringing factory owners closer to Industry 4.0.