



Nick Morrill

Key Considerations Before Making the Switch

When it comes to consumer technologies, wireless technologies such as Bluetooth® are widely utilized, and readily available--but when it comes to two-way radio communication products, there are several barriers that limit available options. Before you invest in wireless accessories for your two-way radios, here's what you need to consider:

1. Compatibility

Unlike consumer technologies, the market for Bluetooth® two-way radio accessories is still quite limited overall. It starts with the two-way radio - does it even offer Bluetooth® capabilities? ? Most radios manufactured and sold today do not. And for those that do, there is a high price tag and sometimes encryption measures are in place preventing 3rd party accessories from functioning properly.

2. Cost vs. Value

Bluetooth® accessories can cost significantly more than wired options--sometimes double. Add in the potential need for radio upgrades and/or proprietary integrations, and costs rise quickly. If Bluetooth® solves a serious safety or efficiency issue, it may be worth the investment. But for day-to-day reliability, across large user groups, wired solutions often deliver greater value at a lower cost.

3. Operation and Maintenance

Wireless accessory products are not powered by the radio and require additional batteries, chargers, and pairing steps. These added components add time and can create frustration, especially in high-turnover or fast-paced environments. For teams where ease of use and simplicity matter, wired accessories tend to be a better bet.

4. Performance & Durability

Wired accessories are plug-and-play, while Bluetooth® devices need to be charged and continuously paired. Dead batteries, connection drops, or syncing issues can immediately disrupt communications. Wireless connections may be more susceptible to interference as well, with WiFi, microwaves or even large objects having the potential to distort transmissions or drop the connection. Most wireless accessories were designed for consumer use and may lack rugged environmental ratings (like IP standards), making them less suited for dusty, wet, or rough environments, which is commonplace for most manufacturing environments.

5. Safety & Security

Safety features such as noise reduction ratings (NRRs) are not a common feature available with most Bluetooth® products for two-way radios. Wireless products are also more vulnerable to hacking and interception, which makes this technology a questionable fit for privacy-sensitive industries.

Why CavCom Wired Solutions

CavCom's wired accessories are purpose-built for the most demanding industrial applications and environments.

- Compatibility with virtually any two-way radio
- Reduced costs by using your existing two-way radios
- Limits the number of batteries and operational headaches
- Outstanding communication quality and durability
- NRR hearing protection ratings
- Secure link to radio

Let's talk about what's best for your team. Whether you're exploring Bluetooth® or sticking with wired, we'll help you choose the right solution to improve safety and performance.