**Why we chose RS232 communication – chatGPT**

RS232 (Recommended Standard 232) is a standard communication protocol for serial communication between two devices. It has several advantages over other communication protocols, such as:

1. Simplicity: RS232 is a simple and widely used protocol that is easy to implement and troubleshoot. It uses a simple binary signal to transmit data, which makes it easy to understand and work with.
2. Compatibility: RS232 is a widely used protocol that is compatible with most computers and devices. It is commonly used for connecting devices such as modems, printers, and mice to computers.
3. Long-distance communication: RS232 can be used for long-distance communication, with distances up to 50 feet (15 meters) without the need for any signal amplification or repeaters. This makes it suitable for applications such as industrial control systems, where communication between devices is required over long distances.
4. Noise immunity: RS232 has a high level of noise immunity, which means it can operate in noisy environments without the need for additional shielding or filtering.
5. Versatility: RS232 can be used for a wide range of applications, including data transfer, remote control, and device management.

Overall, the simplicity, compatibility, long-distance communication capabilities, noise immunity, and versatility of RS232 make it a widely used and popular communication protocol.