

JHYOSSTHI 5Pin

JHYOSSTHI 5Pin Magnetic Pogo Pin Connector User Manual

Model: 5Pin

1. INTRODUCTION

This manual provides detailed instructions for the JHYOSSTHI 5Pin Magnetic Pogo Pin Connector. This product is designed for reliable electrical connection in various electronic devices, featuring a magnetic attachment and spring-loaded pins for optimal performance. Each package typically contains two pairs of connectors.

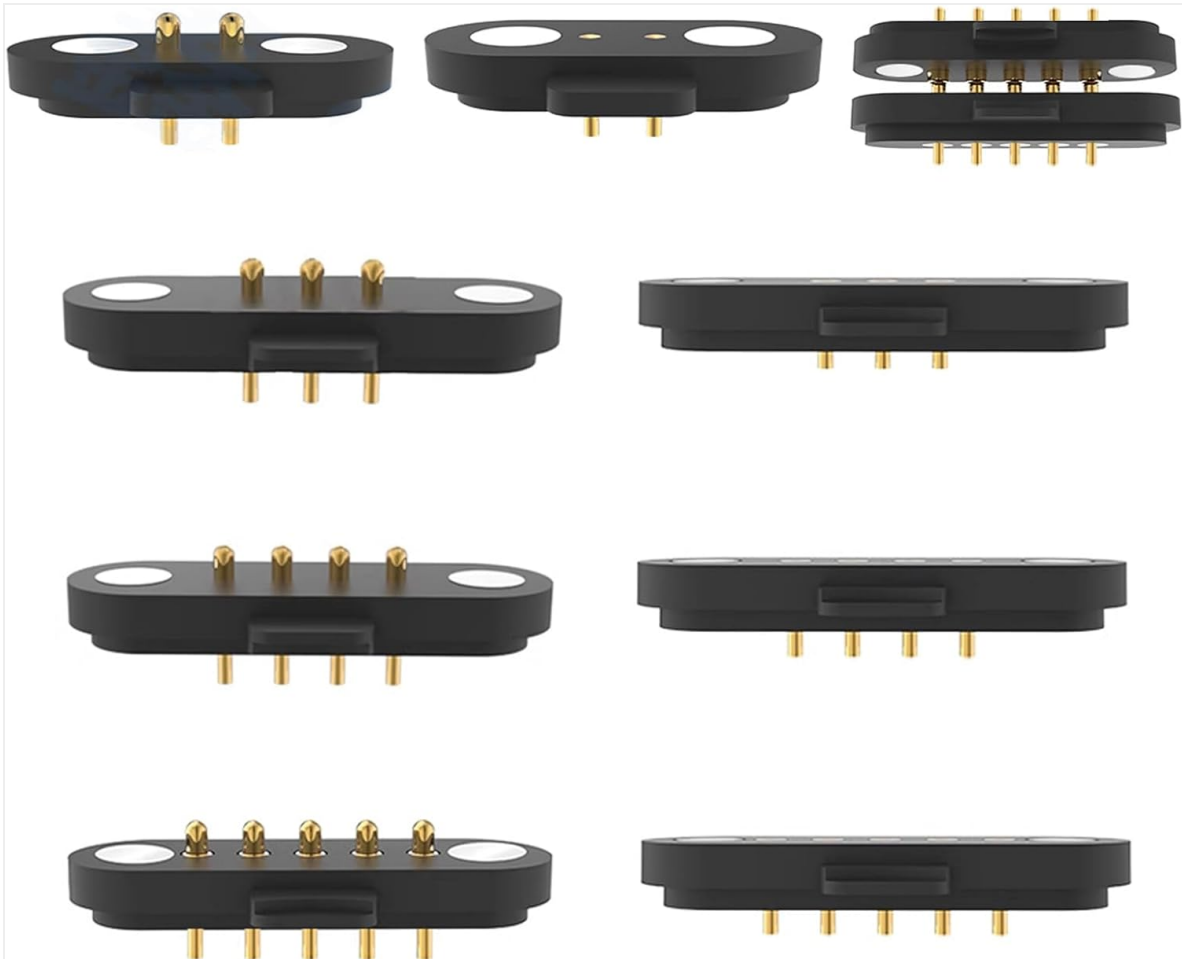


Figure 1: Overview of JHYOSSTHI 5Pin Magnetic Pogo Pin Connectors (Male and Female).

2Pair

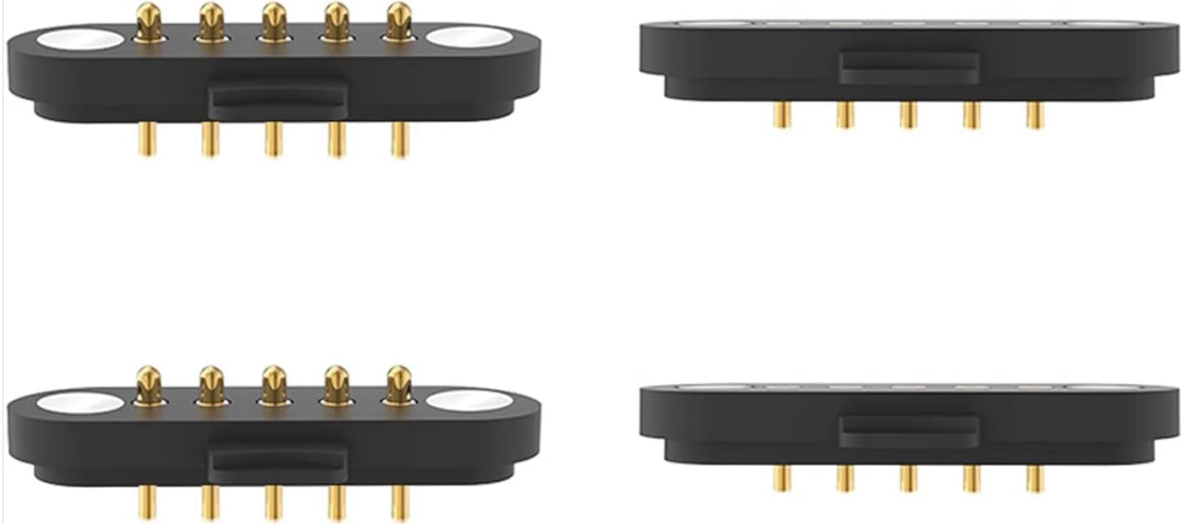


Figure 2: Package contents indicating two pairs of connectors.

2. PRODUCT FEATURES

- **Miniature Size:** Compact design with a pitch of 2.5mm, suitable for space-constrained applications.
- **Superior Materials:** Constructed with high-temperature and corrosion-resistant materials for enhanced durability and reliability.
- **Excellent Conductivity:** Spring-loaded pins ensure good connectivity and conductivity. Rated for 12V, 1A electrical performance.
- **Gold-Plated Contacts:** Gold plating on the spring pins improves mechanical performance, wear resistance, and extends service life.
- **Magnetic Connection:** Provides a secure and easy-to-use connection mechanism.

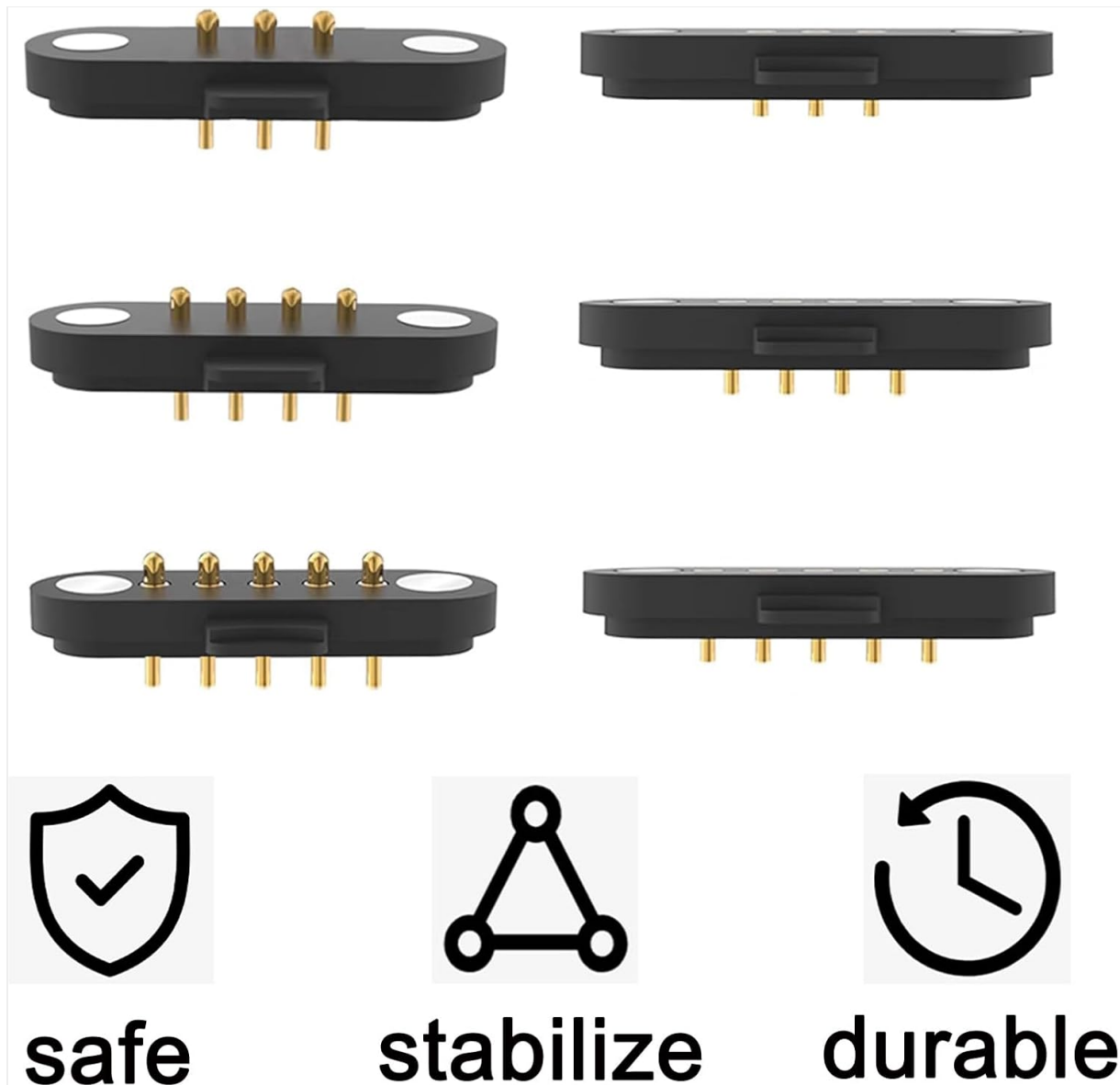


Figure 3: Key attributes: safe, stable, and durable design.

3. SETUP AND INSTALLATION

The JHYOSSTHI 5Pin Magnetic Pogo Pin Connector consists of a male and a female component, designed for through-hole mounting. Proper installation ensures reliable electrical contact and mechanical stability.

3.1 Component Identification

- **Male Connector:** Features spring-loaded pins that protrude.
- **Female Connector:** Features contact pads designed to receive the male pins.

3.2 Mounting Instructions

1. **Prepare Mounting Surface:** Ensure the PCB or mounting surface has appropriate 2.5mm through-holes for the connector pins. Refer to the dimension diagrams for precise hole placement.
2. **Insert Connector:** Carefully insert the pins of the male or female connector into the prepared through-holes. Ensure correct orientation.
3. **Secure Connection:** Solder the pins to the PCB pads to create a secure electrical and mechanical connection. Ensure solder joints are clean and free of bridges.
4. **Test Alignment:** Before final assembly, verify that the male and female connectors align correctly and engage smoothly when brought together.

Male

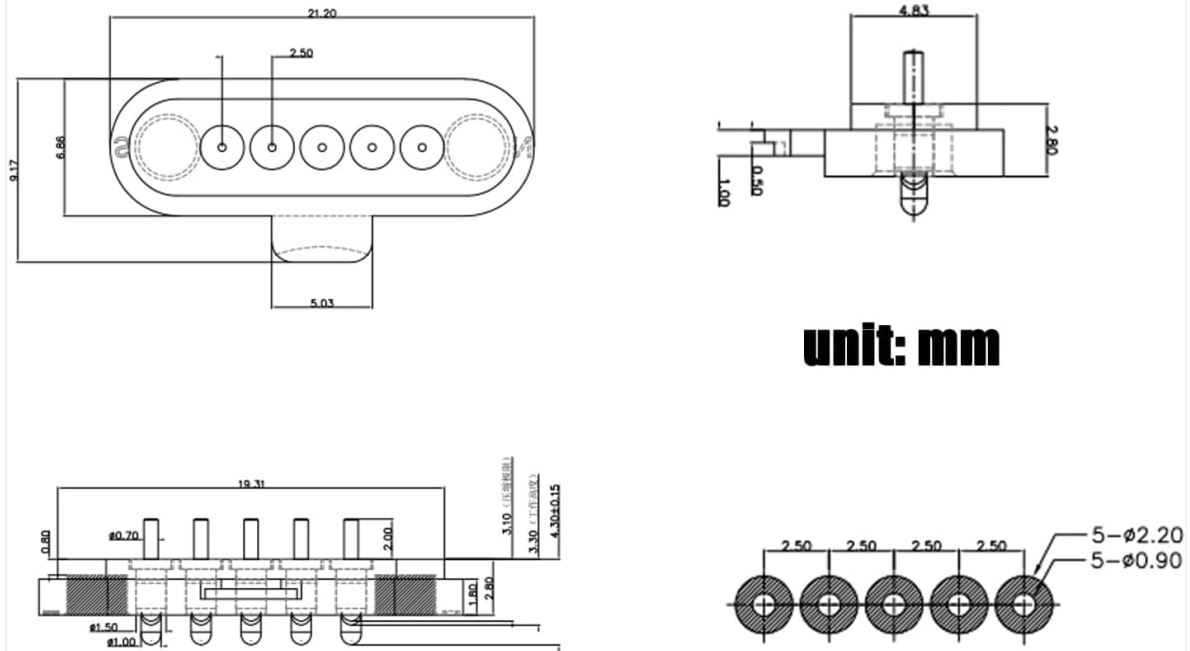


Figure 4: Male Connector Dimensions (unit: mm).

Female

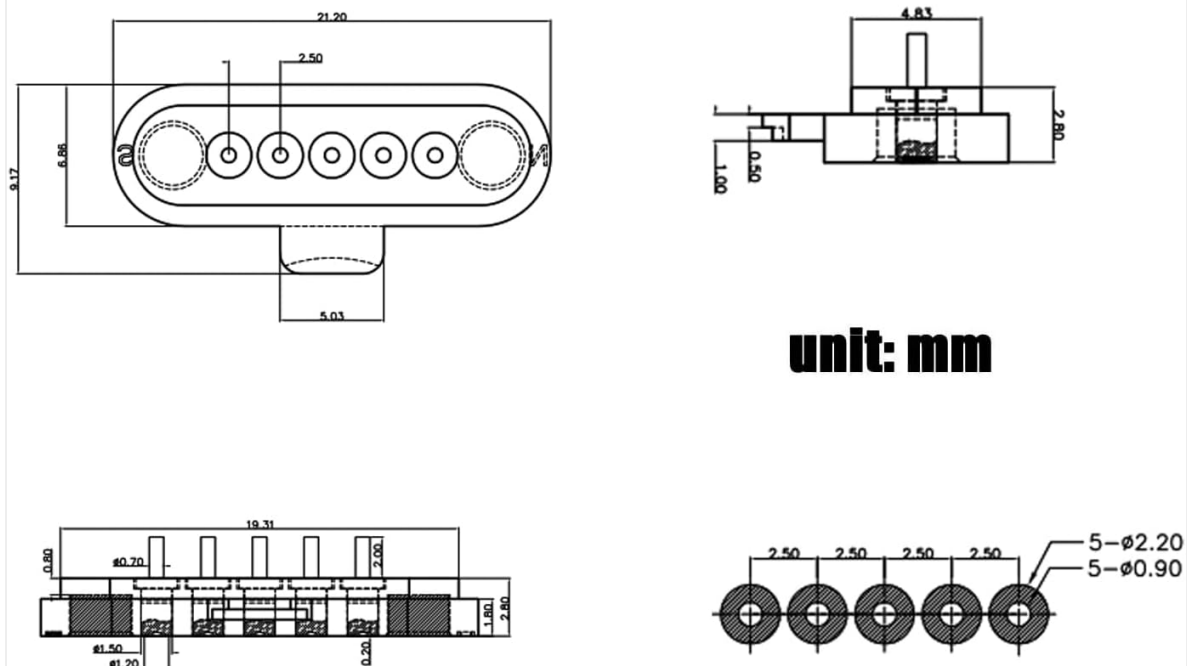


Figure 5: Female Connector Dimensions (unit: mm).

4. OPERATING INSTRUCTIONS

The JHYOSSTHI Magnetic Pogo Pin Connector is designed for simple and reliable operation.

1. **Connection:** Bring the male and female connector halves together. The integrated magnets will automatically align and secure the connection, ensuring the spring-loaded pins make proper contact with the pads.
2. **Disconnection:** Gently pull the two connector halves apart. The magnetic force will release, allowing for easy disconnection.
3. **Power Transfer:** Once connected, the connector facilitates the transfer of DC power or data signals between the connected devices, up to its rated specifications (12V, 1A).

5. MAINTENANCE

To ensure the longevity and optimal performance of your magnetic pogo pin connectors, follow these maintenance guidelines:

- **Keep Contacts Clean:** Periodically inspect the gold-plated pins and contact pads for dust, dirt, or debris. Use a soft, dry cloth or a cotton swab with isopropyl alcohol to gently clean the contact surfaces if necessary.
- **Avoid Physical Damage:** Do not apply excessive force when connecting or disconnecting. Avoid bending or damaging the spring-loaded pins.
- **Storage:** When not in use, store connectors in a clean, dry environment to prevent contamination and corrosion.
- **Inspect for Wear:** Over time, inspect the spring pins for signs of wear or reduced spring tension. Replace connectors if significant wear is observed to maintain reliable contact.

6. TROUBLESHOOTING

If you encounter issues with your JHYOSSTHI Magnetic Pogo Pin Connector, consider the following troubleshooting steps:

- **No Connection/Intermittent Connection:**
 - Ensure both male and female connectors are clean and free of obstructions.
 - Verify that the connectors are fully engaged and magnetically secured.
 - Check for bent or damaged pogo pins. If pins are damaged, the connector may need replacement.
 - Confirm that the power source or signal lines connected to the PCB are functioning correctly.
- **Weak Magnetic Hold:**
 - Ensure no metallic debris is interfering with the magnetic surfaces.
 - Verify that the connectors are correctly aligned.

7. SPECIFICATIONS

Feature	Specification
Model	5Pin
Pitch	2.5mm
Operating Voltage	12V
Operating Current	1A
Connector Type	Magnetic Pogo Pin (Male-to-Female)

Feature	Specification
Contact Plating	Gold-plated
Mounting Type	Through-hole
Color	Black
Item Weight	0.353 ounces
Package Dimensions	1.9 x 1.7 x 0.4 inches

8. APPLICATIONS

The JHYOSSTHI 5Pin Magnetic Pogo Pin Connector is versatile and suitable for a wide range of precision electronic products, including but not limited to:

- Semiconductor devices
- Mobile phones and accessories
- Communication equipment
- Automotive electronics
- Smartwatches and wearables
- Headphones and earbuds
- Handheld terminals
- Beauty instruments
- Other devices requiring reliable DC power or signal connections.

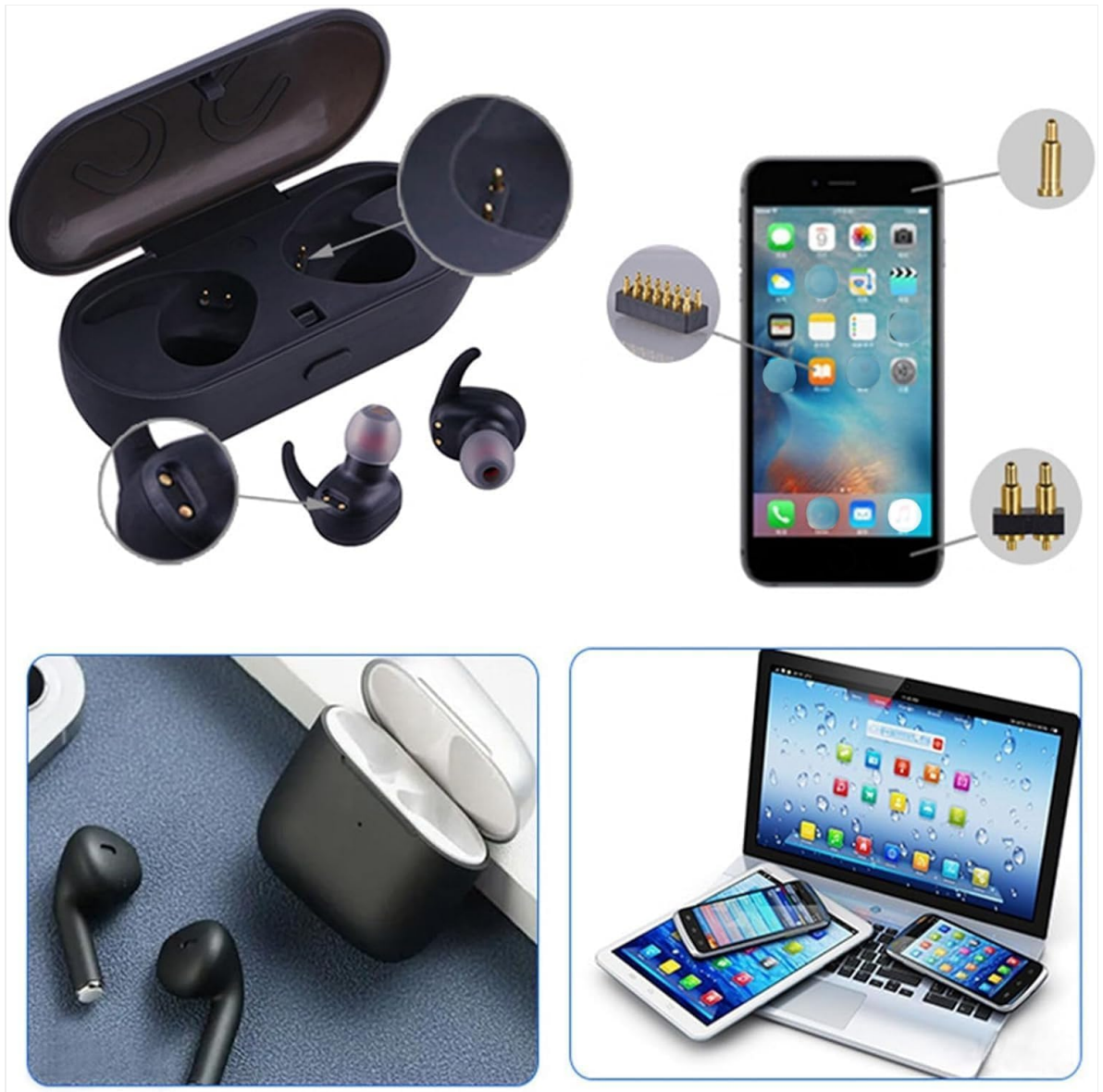


Figure 6: Connector integration examples in consumer electronics.

Widely Used



Smart Watch



Mobile Phone



Medical Equipment



Headphones



Handheld Terminal



Beauty Instrument

Figure 7: Diverse applications across different industries.