

CONNECTED WORLD CUP

Advanced wireless technologies empower real-time sensing, precise positioning, powerful connectivity and intelligent data analytics, creating a smarter, safer and more exciting games.



01 Connected Football



- IMU sensing
- Touch detection
- Real-time motion data
- Wireless charging

02 Player/Jersey Tracker



- Load monitoring
- Movement tracking
- UWB/IMU
- Lightweight wearable

03 Team Positioning System



- Real-time positioning
- Centimeter-level accuracy
- Live performance insight

System Architecture & Product Mapping

IMU Sensor

Capture precise motion, impact and orientation

UWB Tag

Real-time positioning

Wireless Charging Coil

Efficient, contactless power transfer

Micro Battery

Long-life, light weight power source



IMU Sensor

Tracks acceleration orientation and movement

UWB/BLE Connectivity

High accuracy positioning and short-range comms

Charging Interface

Easy, reliable power connection

Lightweight Battery

Optimize for long wear time

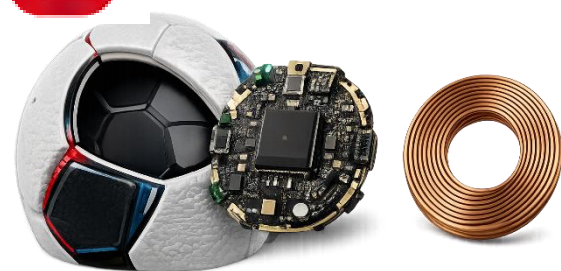
CONNECTED WORLD CUP

INPAQ Solutions for SMART SPORTS

Design for Better Real-time Sports Experience,
Precise, Reliable and Lightweight

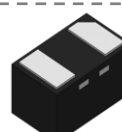
Components

01 Smart Ball



 RF Inductor

 Bead

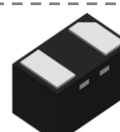
 TVS Diode

02 Smart Jersey



 RF Inductor

 Bead

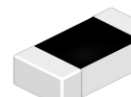
 TVS Diode

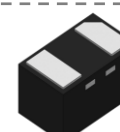
 Power Inductor

03 Sideline Anchor



 RF Inductor

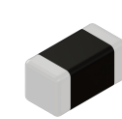
 ESD Suppressor

 TVS Diode

 Power Inductor

04 Charging Dock



 Bead

 TVS Diode

 Power Inductor

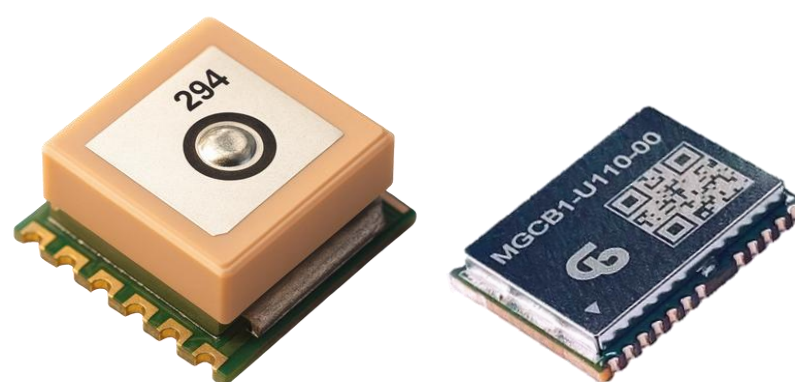
RF Solution

UWB Anchor/Tag Module



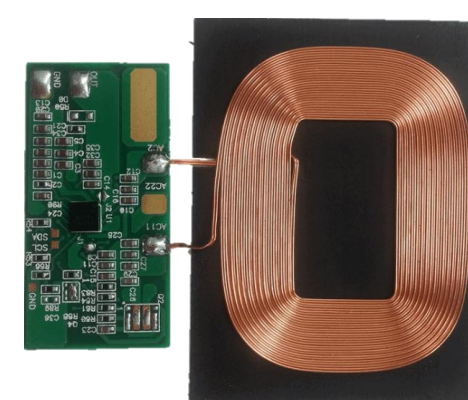
- Supports UWB channels 5 & 9
- Centimeter-level positioning accuracy
- Low power consumption

GNSS RTK Module



- GNSS band: L1, L1+L5
- Standard and high precision
- Integrated LNA & SAW filter
- RTK/DR solution available

Wireless Charging Solution



- High efficiency charging
- Low power loss
- Foreign object detection(FOD)
- Over T/V/C protection



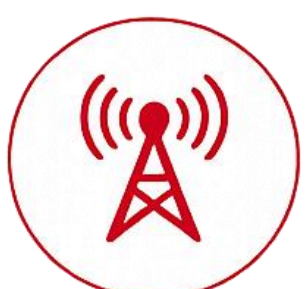
UWB

Precise Positioning



GPS

Global Coverage



Cellular

Reliable Connectivity



NFC

Secure Pairing



WPC

Wireless Power



Wi-Fi

High-Speed Link

PSA

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INPAQ TECHNOLOGY CO., LTD.