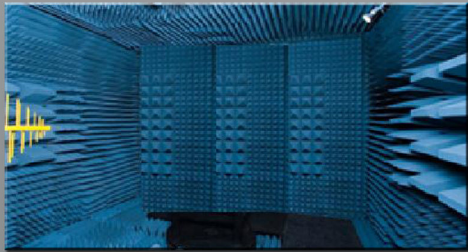


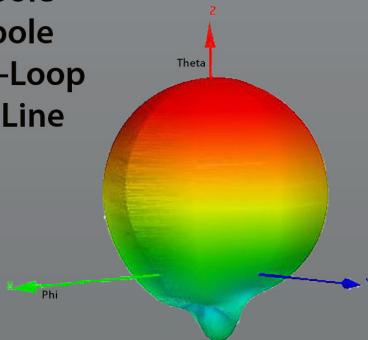
## Specialty Testing Services

ZP Wireless specializes in many FCC rules and compliance testing required for certification and licensing. Calibrated 3m anechoic chamber used in conjunction with automated test systems enables quick turn, low cost compliance screening. If you are having trouble achieving compliance, ZP Wireless can help with Noise Reduction solutions.



## Antenna Design

- Balanced Dipole
- Short Monopole
- Loop & Semi-Loop
- Meandering Line
- Slot
- Patch
- Inverted F
- Multi-band
- Wideband
- Circular Polarization
- Dual Polarization Diversity
- Switched Array



## Additional Services Available

Antenna  
• Design  
• Modeling  
• Optimization  
• Prototyping  
• Production Solutions  
Filter Design  
Connector Design  
Impedance Matching  
PCB Design  
Noise Reduction  
FCC Testing  
Automated Test Systems

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*"ZP Wireless is your one stop for design, optimization, prototyping and production solutions."*

## Wireless Communication Solutions



*Built-in  
Microprocessor*



## Custom Designs

*ZP Wireless offers high-performance, cost effective custom solutions for data communications and remote control applications.*

### Applications

- Low cost, wireless data transfer
- Pagers
- Tag Readers
- Remote control
- Security systems
- Keyless entry
- Industrial control
- Sensor networks
- Home automation
- Process and building control



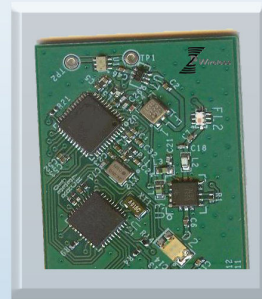
### Benefits

- Custom protocols, power levels and receive sensitivities developed based on system requirements.
- Ultra low power for battery operated devices where extended life is critical.
- Industrial temperature range -40C to +85C.

## Specifications

### Transceiver

- Programmable Frequency Band
- Programmable PA
- Data Rate: 1 to 128 kbps
- TX and RX 64 byte FIFOs
- Modulations: FSK, GFSK, and OOK



### Microcontroller

- 8-MHz to 25-MHz CPU Speed
- 0.5KB to 256KB Flash
- 128B to 16KB RAM
- 16-bit RISC CPU



## Features

- Frequency hopping (FHSS)
- Programmable packet handler
- Spectral shaping: Gaussian Filtering
- Narrow Bandwidth
- Low IF architecture
- Auto-frequency calibration (AFC)
- High Accuracy digital RSSI
- Tx/Rx switch
- Antenna Diversity Control



- LCD Controller
- Temperature sensor
- Ultra low power shutdown mode
- Wake-up timer
- Programmable Power Supply
- Low battery detector