



Piconode SN400

CRAFTED WITH FLEXIBILITY IN MIND

R9 Technology's Piconode is a wireless IoT endpoint targeted at low-cost data collection / control applications. The Piconode was designed to work seamlessly with R9's Picogate cellular gateway.

MULTI-STANDARD WIRELESS INTERFACES

R9's Piconode was designed with deployment flexibility in mind. The multi-band software-defined radio (SDR) can be configured for Wi-Sun, Zigbee, or RF4CE. Operation in the 868/915 MHz ISM band provides additional range and performance. Piconode allows customers to customize the solution for a "perfect fit".



Bi-Directional Sensor / Control Interface

Piconode provides four sensor interfaces that can be used for both reading digital sensors or writing digital control elements.

Simplified Network Deployment

The auto discovery feature of Piconode makes network configuration a snap. Simply enter Piconode's unique ID in the customer portal and let the system do the rest.

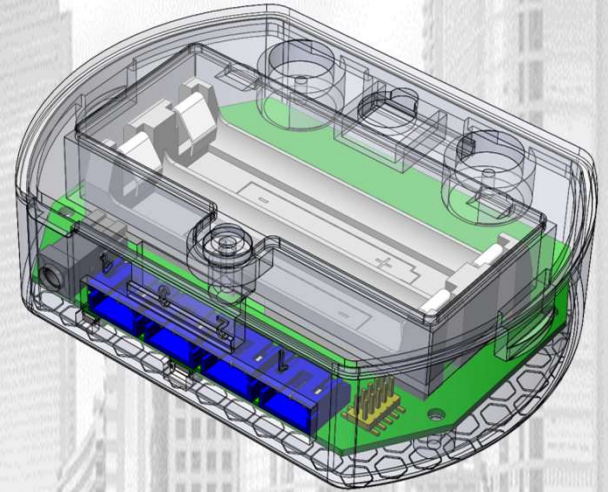
Extended Battery Life

Powered by two standard AAA batteries, Piconode is designed to operate hands off for years.



Feature List:

- Wireless 868 MHz / 915 MHz ISM band connectivity for sensor data transfer
- Software-defined radio (SDR) chip-set allows for support of multiple communications frequencies and standards
- AES128 encryption providing secure sensor node communication
- An external antenna can be configured (as an option)
- Provides local and remote digital temperature sensing
 - Four channels: -30°C to $100^{\circ}\text{C} \pm 0.6^{\circ}\text{C}$ remote sensing temperature range (wired probe)
 - Single channel: -10°C to $70^{\circ}\text{C} \pm 0.6^{\circ}\text{C}$ local ambient temperature range (on module)
- Supports multiple digital probe types, including serial one wire, pulse counting, GPIO (one bit)
- Supports up to four channel analog input configuration (0V-10V)
- External reset button
- External network status button
- Small (62.8 mm height x 72.9 mm width x 21.1 mm thickness) ABS plastic enclosure
 - Integrated magnet system for attachment to metal surfaces, including refrigerator and freezer.
 - Mounting flange for use with screw-mount applications.
- LED indicator (red/green)
- Built-in system sleep timer for lowest possible power consumption, and longest possible battery life
- Internal battery or external power supply operation
- 2x AAA alkaline battery power. (2.5 years of life @ 10 minute reporting intervals)
- DC jack for external power input (0.65 mm, 3.0V-3.3V)
- 0°C to 50°C temperature environment operating range



ABOUT R9 TECHNOLOGY

R9 Technology provides the necessary hardware, embedded software, and cloud infrastructure to enable quick and easy deployment of IoT products. We focus on cost-effective, small form factor (SFF), and low-power solutions. R9 Technology can customize any of our products to fit your specific needs. Our experienced team members have expertise in the telecom space, cellular wireless technologies, and wireless local area network technologies, such as Bluetooth, BLE (Smart), WiFi, Zigbee, and others.

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