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IOTile Companion

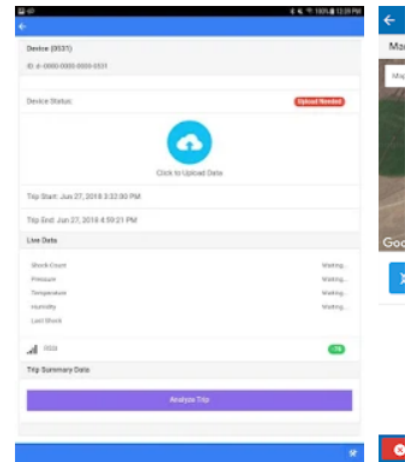
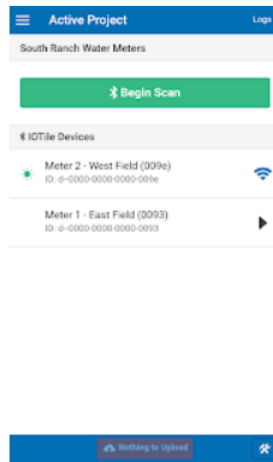
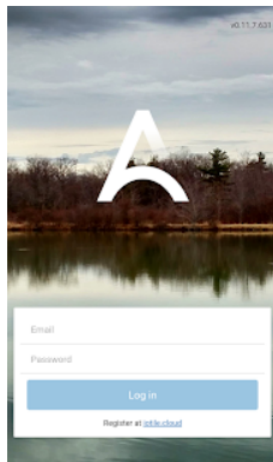
Arch Systems Communication

★★★★★ 2

Everyone

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Install



Arch Systems provides a modular connected device platform called IOTile for building industrial-grade internet-connected sensing and automation applications. Our mission is to empower the innovative to design and deploy Industrial IoT for a more connected and sustainable Earth. The IOTile Companion App is a key component of the IOTile product suite.

The IOTile Companion Mobile App enables you to easily claim, scan, and connect to IOTile Devices via Bluetooth Low Energy (BLE). IOTile Devices can be configured on the IOTile Cloud to display real time readings as well as log historical readings that are sent to the cloud for storage. With the mobile app, you can connect and see real time readings as well as log historical readings and then upload them to the cloud. The app is designed to function in both areas with and without good internet connectivity making this a viable monitoring solution for the most remote locations. After downloading the app, claiming devices, and setting up your project, you can then connect to IOTile Devices, view real time readings, and collect historical readings into your phone without having access to internet. You can then use the app to upload those historical readings to the cloud when you return from remote locations and have internet connectivity again.

To utilize this app, you will need to have an IOTile device.

Thank you for using the app and helping to create a more connected and sustainable Earth.

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WHAT'S NEW

- Add support for new POD-1M v2 device
- Improved robustness in data upload process
- Bug fixes

ADDITIONAL INFORMATION

Updated

January 12, 2019

Size

4.8M

Installs

100+

Current Version

4.0.0

Requires Android

4.4 and up

Content Rating

Everyone

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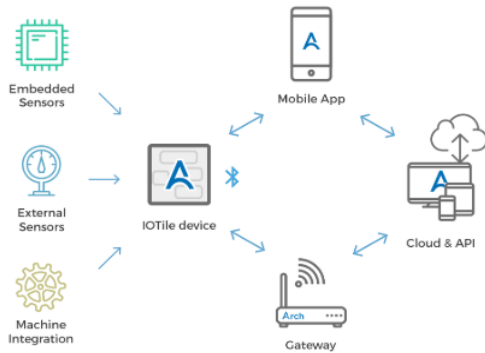
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INDUSTRIAL IOT BLUETOOTH® WIRELESS SOLUTION



Arch Systems provides a secure, robust solution for your remote monitoring and control needs. Our complete device-to-cloud platform is based on a modular architecture that allows us to move from lean, cost-effective prototypes to production solutions literally within weeks. Data can be stored and visualized through our cloud or passed robustly via our API for your own storage and custom application. The existing system connects via Bluetooth Low Energy to your mobile phone or tablet or to our Bluetooth Gateway. Other communication options will be available soon.

[LEARN MORE](#)



DEVICE



POD-1: IOTILE™ DEVICE

POD-1 is a 2-Tile IoT device for industrial-grade Bluetooth sensing and control. It comes with a Bluetooth Low Energy controller that manages secure and robust data transmission, and contains one of a number of peripheral Tiles:

- GPIO Tile for pulse counting, digital, and analog
- Modbus and USB Tile for industrial equipment
- Accelerometer Tile for vibration monitoring
- Your Tile, ask about your need!

POD-1 comes with a NEMA 4, weather-proof, corrosion-resistant enclosure and provides multiple mounting options that make it viable for a wide array of indoor and outdoor environments.

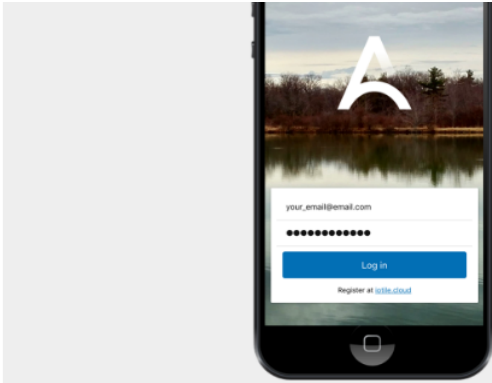


TO



MOBILE APP AND GATEWAY

The IOTile Companion Mobile App and Gateway are purpose-built to relay robust and secure data between



the device and cloud. The mobile app is used to setup new devices, configure settings, and interact with devices in realtime. The app is designed to function in areas with or without connectivity, which makes it a robust solution for remote locations. Data logged by the mobile app or gateway is not deleted from Arch hardware until a secure communication confirms that the data has been successfully uploaded and stored in the cloud.

The IOTile Companion App is available on both the iOS and Google Play App Stores.



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General Purpose POD-1G

IOTile / Edge Devices / General Purpose POD-1G

General Purpose POD-1G

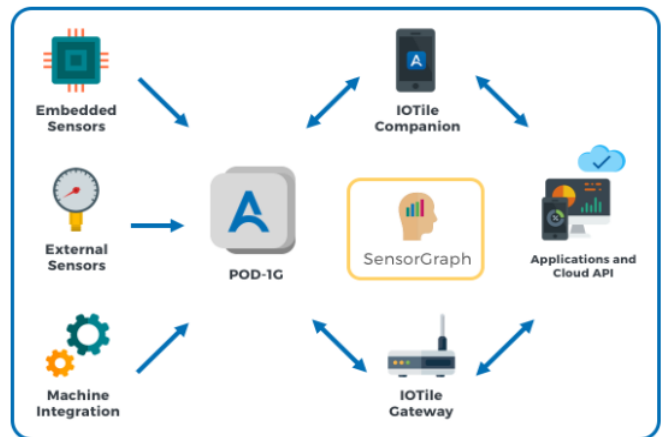
Wireless Edge Devices
Embedded Intelligence
Ultra-Low-Power



Device-to-Cloud Platform

Arch Systems provides a secure, robust solution for your remote monitoring and control needs. Our complete device-to-cloud platform is based on a modular architecture that allows us to move from lean, cost-effective prototypes to production solutions literally within weeks.

Data can be stored and visualized through our cloud or passed robustly via our API for your own storage and custom application. The existing system connects via Bluetooth Low Energy to your mobile phone or tablet or to our Bluetooth Gateway.



IOTile Device

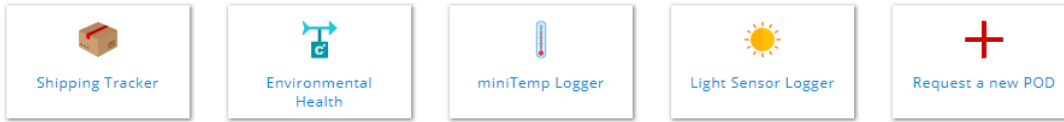
POD-1G is a 2-Tile IoT device that can be ordered directly as a Bluetooth-GPIO device with wiring diagrams or preconfigured with a variety of attached sensors.

- GPIO
- Digital Pulses
- 4-20
- Temperature
- Soil Moisture
- Water Meter



POD-1G comes with a NEMA 4, weather-proof, corrosion-resistant enclosure and provides multiple mounting options that make it viable for a wide array of indoor and outdoor environments.

Other IOTile PODs by Arch:



General Purpose POD-1G Specifications

Controller and Bluetooth® Tile	
2.4 GHz Bluetooth Low Energy	Local connection via Bluetooth Low Energy from IOTile Companion Mobile App
Onboard storage	2 MB non-volatile memory
Range and transmission power	Range: up to 300+ feet line of sight, typically 50-100 feet but variable based on environment. Power: 0 dBm @ 2.4 GHz.
User operation	
Expected battery lifetime	2 to 5 years depending on battery choice and usage
Flash memory lifetime	> 20 years
Onboard device storage	40,000+ readings or ~ 4 months of data for 2 inputs every 10 minutes
Associated cloud storage	Infinite storage with paid subscription, first 6 months free
Management	
Configuration	IOTile Cloud and IOTile Companion Mobile App for settings, local configuration with mobile app
GPIO Ports	
Ports	4 total signal ports (digital + analog) plus 1 power port
GPIO Tile digital I/O	
Ports	4 digital I/O ports
Input Range	0 - 0.6 VDC logic low; 2.2 - 2.8 VDC logic high
Max Input Voltage	2.8 VDC
Max pulse count frequency	500 Hz
GPIO Tile analog I/O	
Ports	3 analog I/O ports
Input Range	0 - 2.8 VDC
Max Input Voltage	2.8 VDC

GPIO Tile power terminal	
Ports	1 power terminal (OUT1)
Output voltage	3.6 VDC (direct from battery)
Max current output	50 mA
Device power	
Battery	SAFT LS 17500 battery 3.6 V, Primary lithium-thionyl chloride battery (full data sheet)
Sleep current draw	< 100 uA
Peak current draw during transmit	~20 mA
Environmental	
Operating temperature	Non-battery components are industrial rated -40 °C to 85 °C
Relative humidity	Generally robust in non-condensing environments
Battery discharge	LS 17500 spec: < 1 %/yr after 1 year of storage at 20 °C
Physical characteristics	
Enclosure material	Polycarbonate
Dimensions	3.23 x 3.15 x 2.17 in.
Weight	< 1 pound
FCC regulatory approval	
FCC device certifications	Device certified for FCC part 15, subpart B
IOTile Companion Mobile App	
Availability	Available for iOS (App Store) and Android (Google Play)